AM-FM STEREO RECEIVER

KR-596/796/896

SERVICE MANUAL

KENWOOD

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B51-5136-00 (K) 1683

Illustration is KR-596.

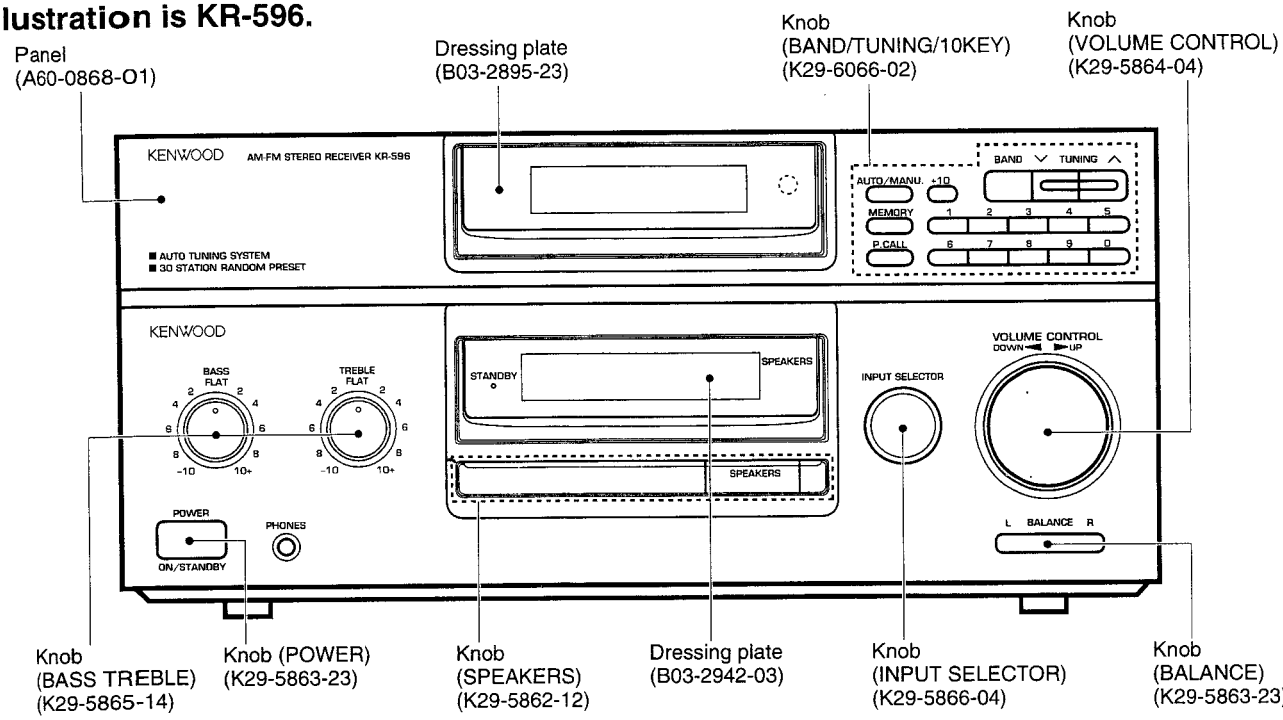
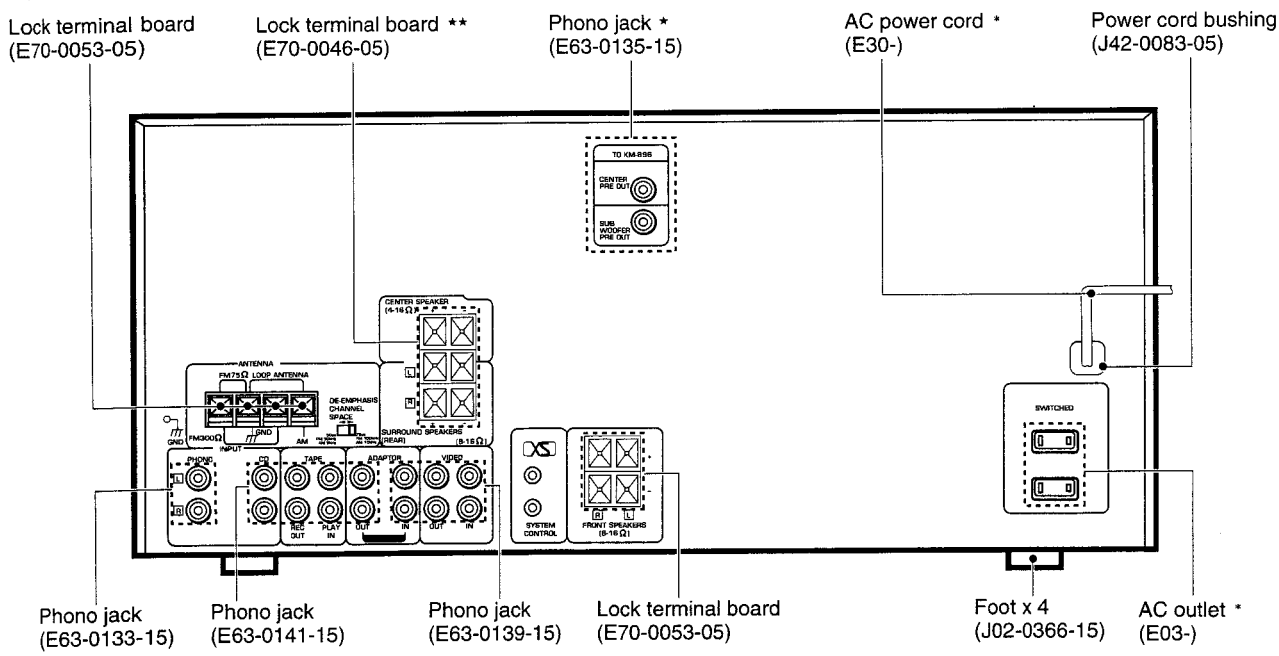


Illustration is KR-896.



***KR-796 is not available.**

***and ** KR-596 is not available.**

*** Refer to parts list on page 29.**

Refer to **KR-594/794** service manual **(B51-4844-00)**, if you want to know more information of **CIRCUIT DESCRIPTION**.

KR-596/796/896

CONTENTS / ACCESSORIES

CONTENTS / ACCESSORIES 2
ADJUSTMENT 4
PC BOARD 5
SCHEMATIC DIAGRAM 11
EXPLODED VIEW (UNIT).....27
PARTS LIST.....29
SPECIFICATIONS .....Back cover

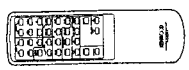
Accessories

AM loop antenna ass'y 1
(T90-0195-05)

(The shape of the loop antenna provided may differ depending on the area.)

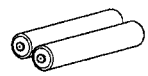
Loop antenna stand
(J19-3645-05)

Remote control unit 1
(A70-0975-05 RC-S0501) : KR-596
(A70-0974-05 RC-S0800) : KR-796/896



Battery cover
(A09-0170-08)

Batteries (R6/AA) 2



FM indoor antenna 1
(T90-0801-05)

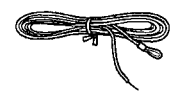
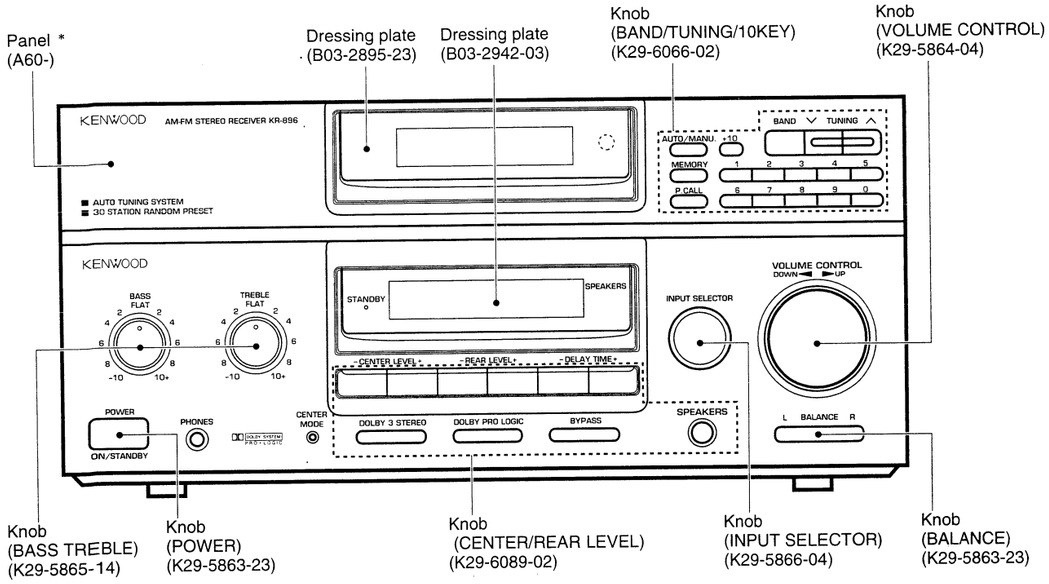


Illustration is KR-796/896.



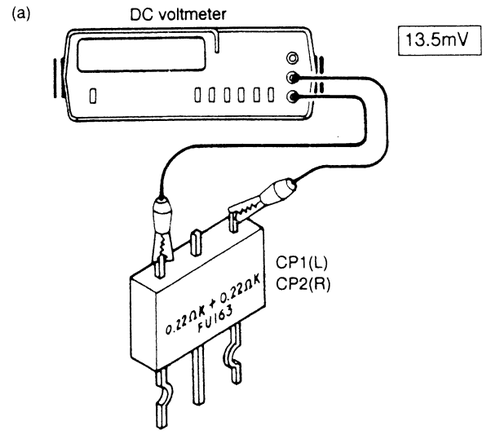
* **Refer to parts list on page 29.**

KR-596/796/896

ADJUSTMENT

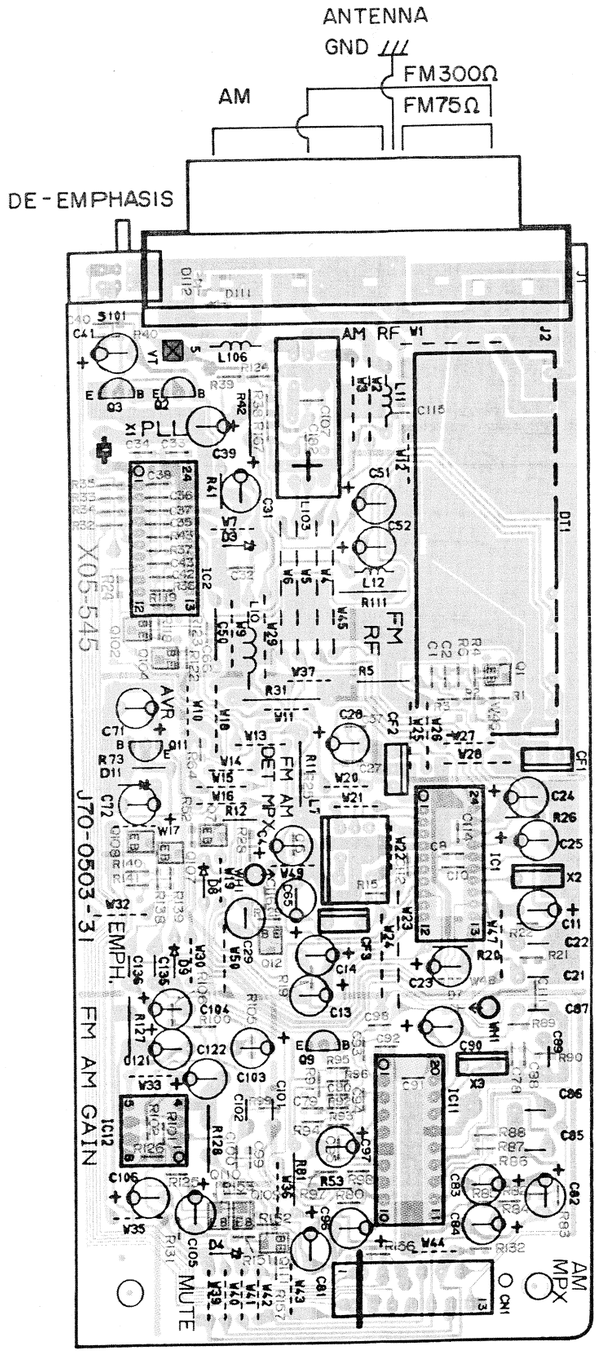
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, set the respective switches as follows : POWER : ON SELECTOR : PHONO							
1	IDLE CURRENT	-	Connect a DC voltmeter across CP1(L) CP2(R) (X09-)	Volume:0	VR1 (L) VR 2 (R) (X09-)	13.5mV	(a)

(a)

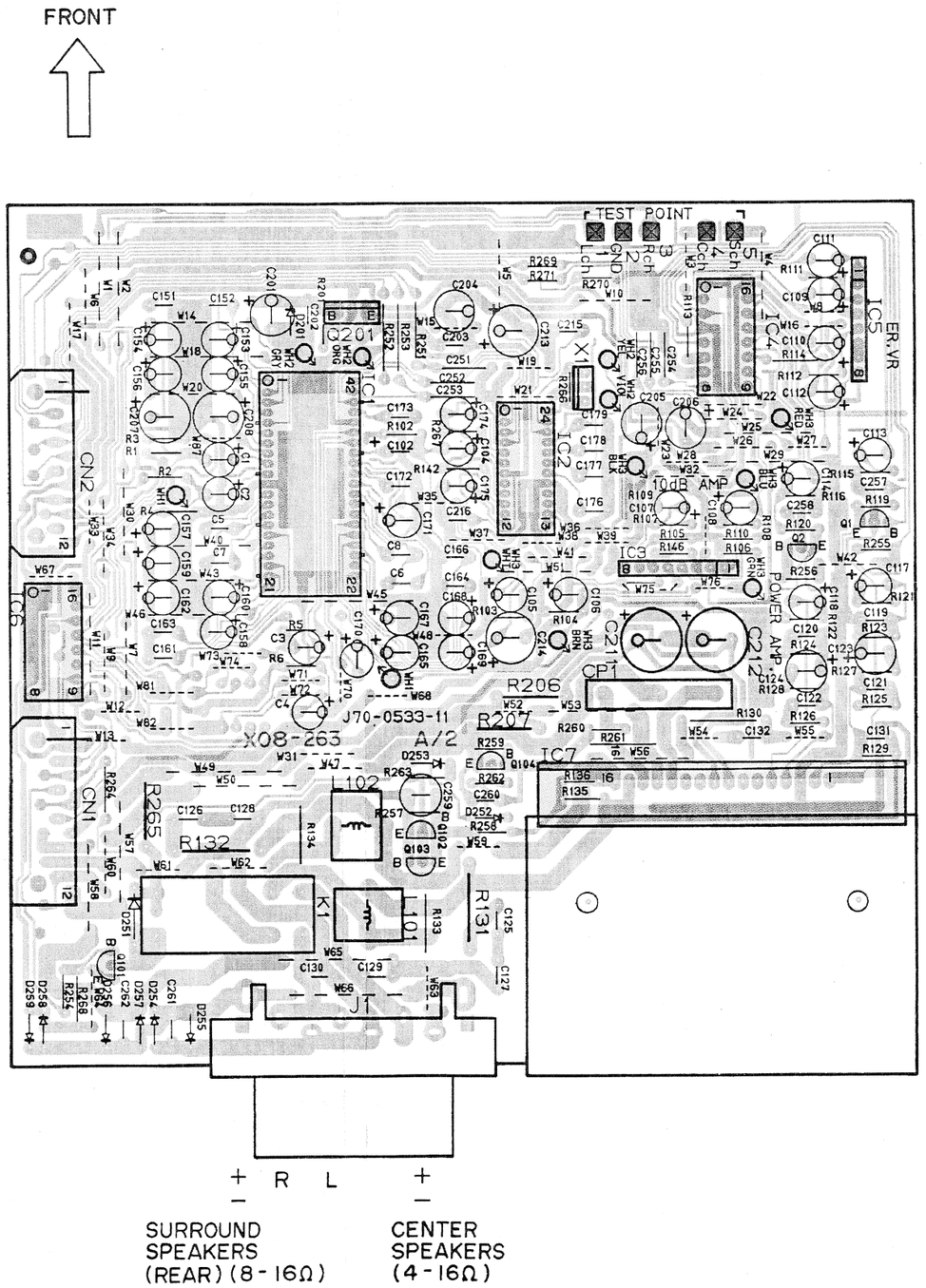


PC BOARD(Component side view)

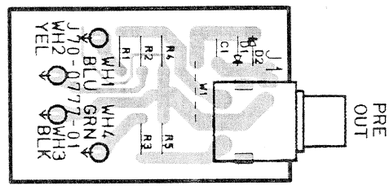
TUNER UNIT : X05-4540-XX

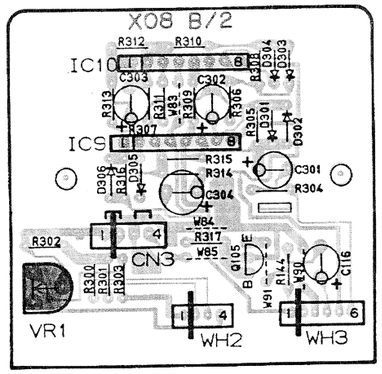


SURROUND UNIT : X08-2630-XX



X13-7380-10

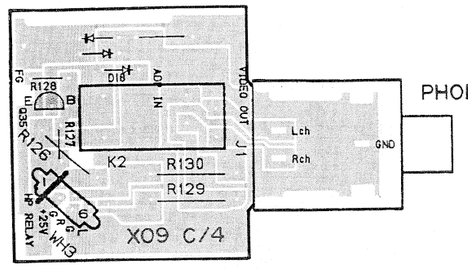


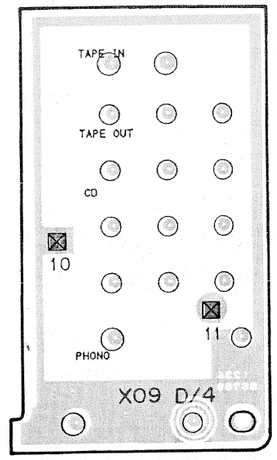


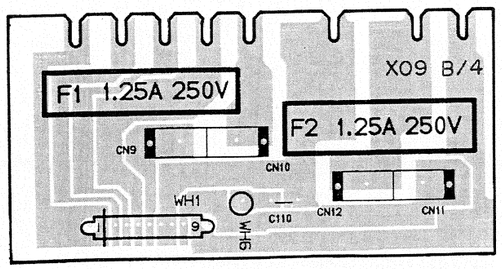
Refer to the schematic diagram for the value of resistors and capacitors.

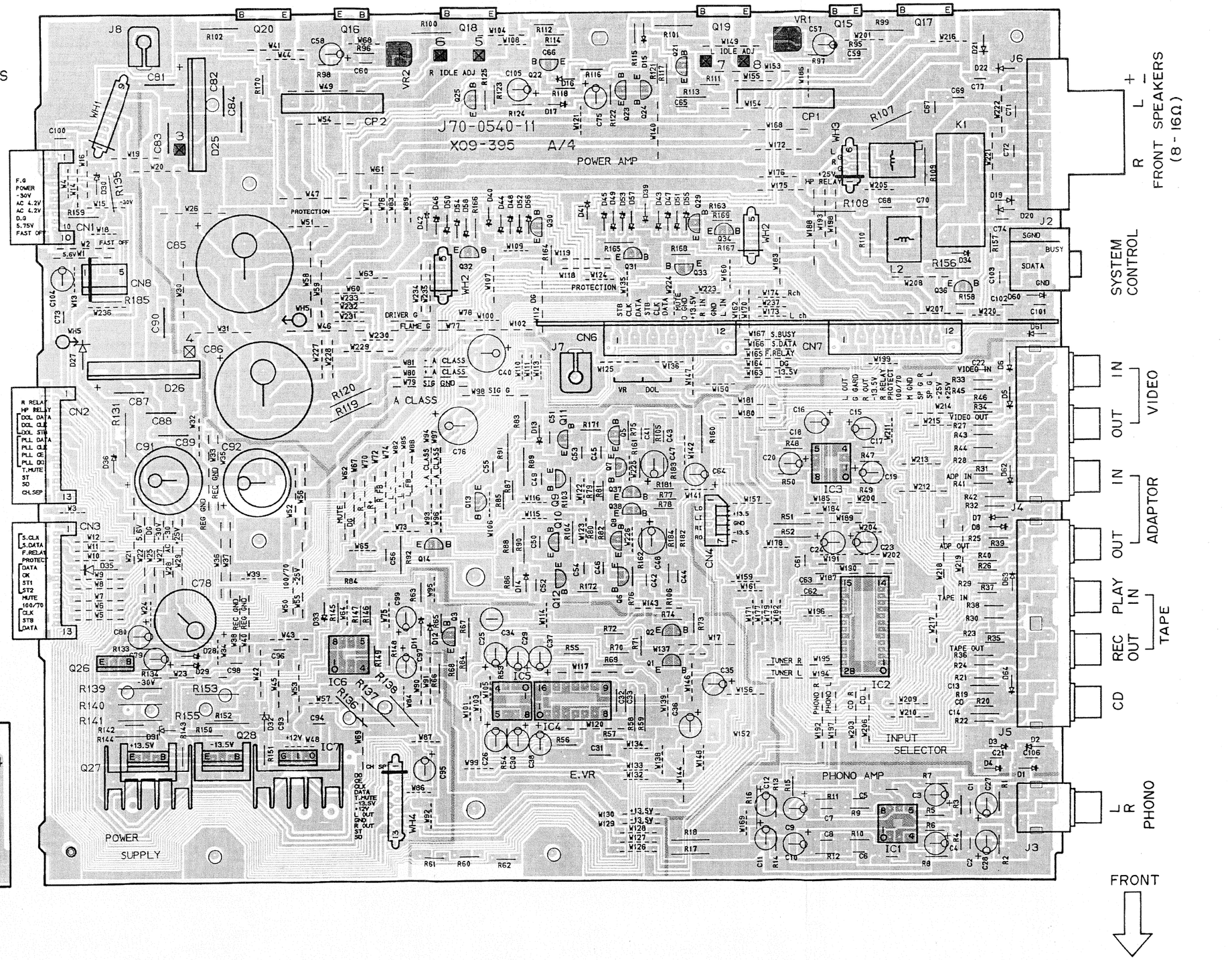
PC BOARD (Component side view)

AUDIO UNIT : X09-3950-XX





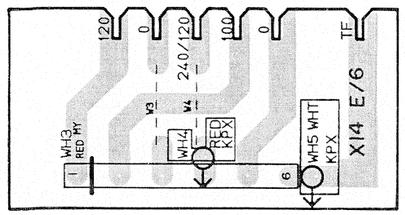


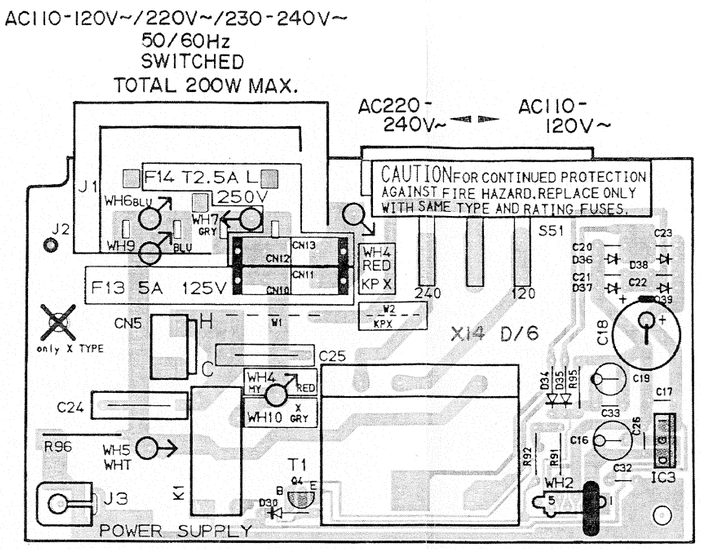


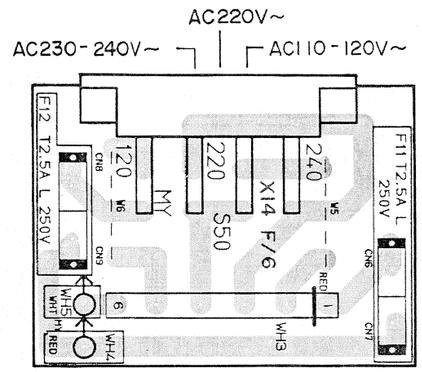
Refer to the schematic diagram for the value of resistors and capacitors.

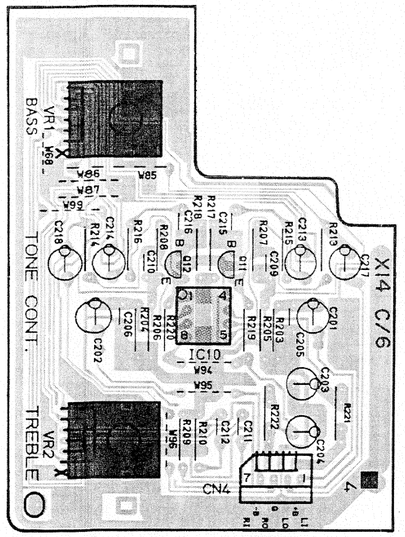
PC BOARD (Component side view)

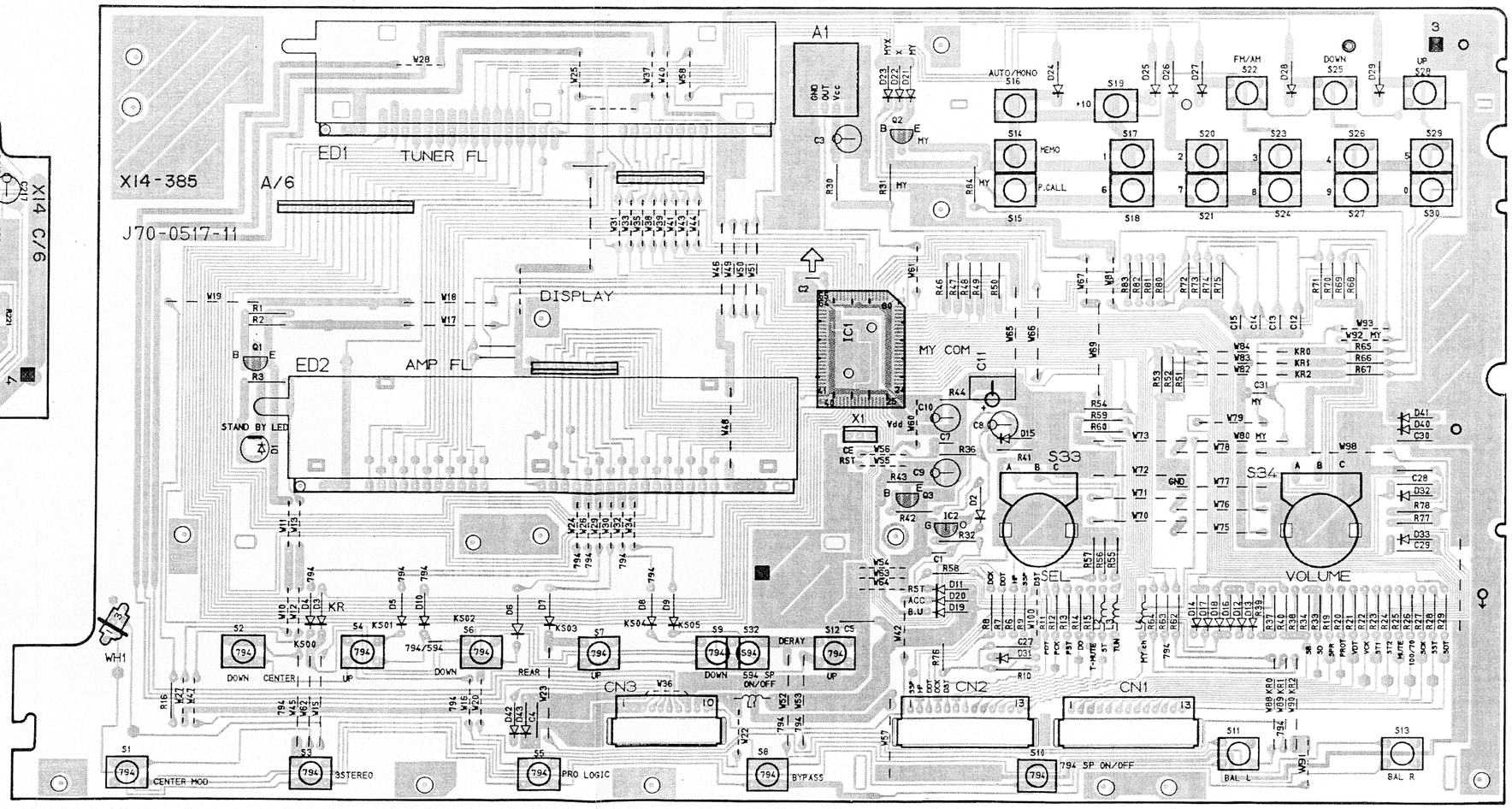
DISPLAY UNIT : X14-3850-XX

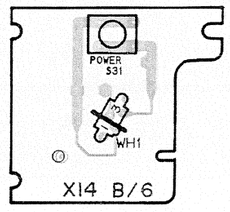






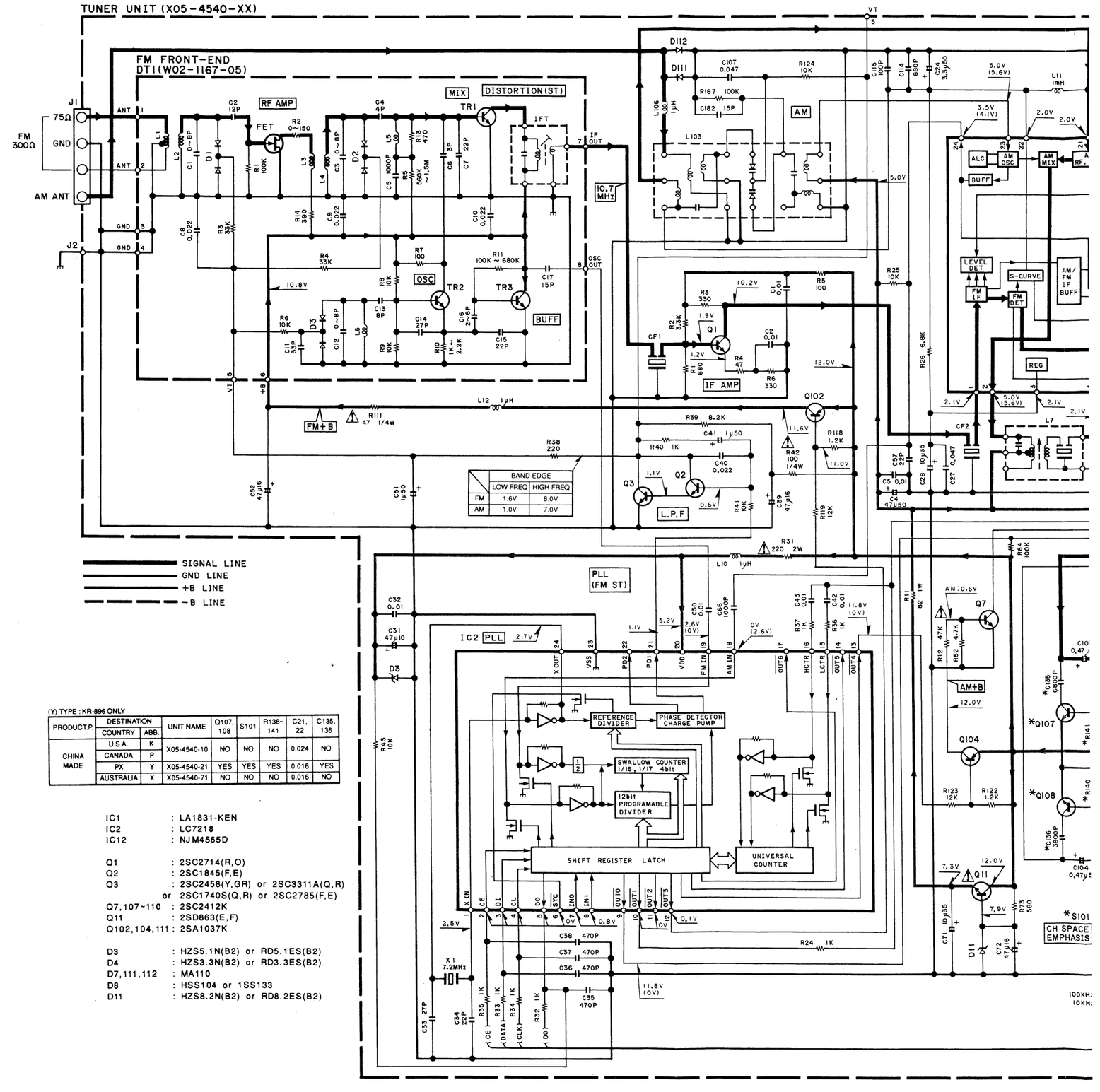






FRONT

Refer to the schematic diagram for the value of resistors and capacitors.



	LOW FREQ	HIGH FREQ
FM	1.6V	8.0V
AM	1.0V	7.0V

(Y) TYPE : KR-896 ONLY

PRODUCT.P.	DESTINATION COUNTRY	DESTINATION ABB.	UNIT NAME	Q107, 108	S101	R138~141	C21, 22	C135, 136
CHINA MADE	U.S.A.	K	X05-4540-10	NO	NO	NO	0.024	NO
	CANADA	P						
	PX	Y	X05-4540-21	YES	YES	YES	0.016	YES
	AUSTRALIA	X	X05-4540-71	NO	NO	NO	0.016	NO

IC1 : LA1831-KEN
IC2 : LC7218
IC12 : NJM4565D

Q1 : 2SC2714(R,O)
Q2 : 2SC1845(F,E)
Q3 : 2SC2458(Y,GR) or 2SC3311A(Q,R)
or 2SC1740S(Q,R) or 2SC2785(F,E)
Q7,107~110 : 2SC2412K
Q11 : 2SD863(E,F)
Q102,104,111 : 2SA1037K

D3 : HZS5.1N(B2) or RD5.1ES(B2)
D4 : HZS3.3N(B2) or RD3.3ES(B2)
D7,111,112 : MA110
D8 : HSS104 or 1SS133
D11 : HZS8.2N(B2) or RD8.2ES(B2)

T (X05-4540-XX)

FRONT-END
1 (W02-1167-05)

SIGNAL LINE
GND LINE
+B LINE
−B LINE

	UNIT NAME	Q107, 108	S101	R138~141	C21, 22	C135, 136
B	X05-4540-10	NO	NO	NO	0.024	NO
Y	X05-4540-21	YES	YES	YES	0.016	YES
X	X05-4540-71	NO	NO	NO	0.016	NO

: LA1831-KEN
: LC7218
: NJM4565D

: 2SC2714(R,O)
: 2SC1845(F,E)
: 2SC2458(Y,GR) or 2SC3311A(Q,R)
or 2SC1740S(Q,R) or 2SC2785(F,E)
10 : 2SC2412K
: 2SD863(E,F)
,111 : 2SA1037K

: HZS5.1N(B2) or RD5.1ES(B2)
: HZS3.3N(B2) or RD3.3ES(B2)
2- : MA110
: HSS104 or 1SS133
: HZS8.2N(B2) or RD8.2ES(B2)

BAND EDGE	LOW FREQ	HIGH FREQ
FM	1.6V	8.0V
AM	1.0V	7.0V

RF AMP · MIX · DISTORTION(ST) · IFT · OSC · BUFF · IF AMP · AM · L.P.F · PLL (FM ST) · FM+B · 10.7 MHz

IC1 FM/AM MPX SYSTEM (FM, ST)
ALC · AM OSC · AM MIX · AM RF. AGC · BUFF · AGC · LEVEL DET · FM IF · FM DET · S-CURVE · AM/FM IF BUFF · COMP · TUNING DRIVE · AM IF · AM DET · REG · GND · VCC · DECODER · MUTE · STEREO SW · STEREO DRIVE · TRIG · FF · VCO · PILOT DET · AM/FM SW · PHASE DET

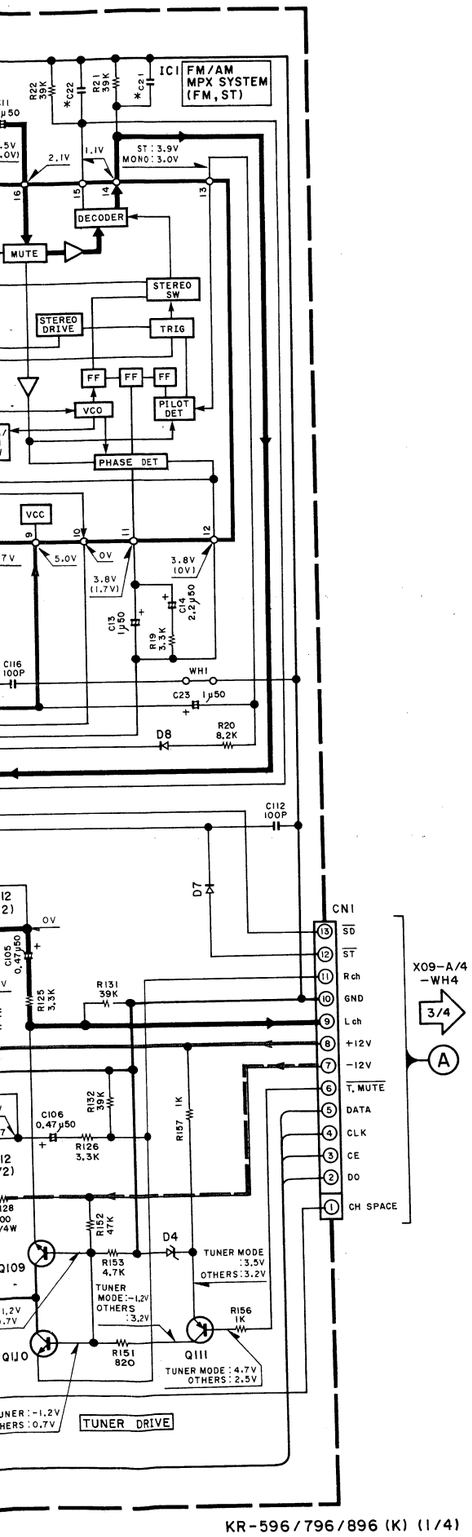
IC2 PLL
REFERENCE DIVIDER · PHASE DETECTOR CHARGE PUMP · SWALLOW COUNTER 1/16, 1/17 4bit · 12bit PROGRAMABLE DIVIDER · SHIFT REGISTER LATCH · UNIVERSAL COUNTER

IC12 (1/2) · IC12 (2/2)

CH SPACE EMPHASIS · TUNER DRIVE

CN1 → X09-A/4 −WH4 3/4 → A
SD · ST · Rch · GND · Lch · +12V · −12V · T. MUTE · DATA · CLK · CE · DO · CH SPACE

KR-596/796/896 (K) (1/4)



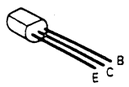
KR-596/796/896 (K) (1/4)

CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

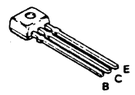
The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

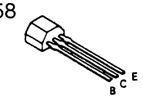
2SA1123
2SA992
2SC1845
2SC2003
2SC2631
2SC2632
2SC2878
2SD863



2SC2785

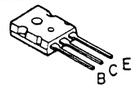


2SA1048
2SC1740S
2SC2458

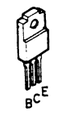


2SA1037K
2SC2412K
2SC2714

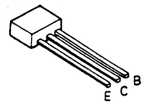
2SB1470BT
2SD2222BT



2SB1370
2SD2061

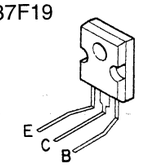


2SA1309A
2SC3311A



2SB1375
2SD2012

2SC4137F19



Y05-3150-00

KR-596/796/896

KENWOOD

SURROUND UNIT (X08-2630-XX) (A/2) KR-796,896

(X08-)(B/2)

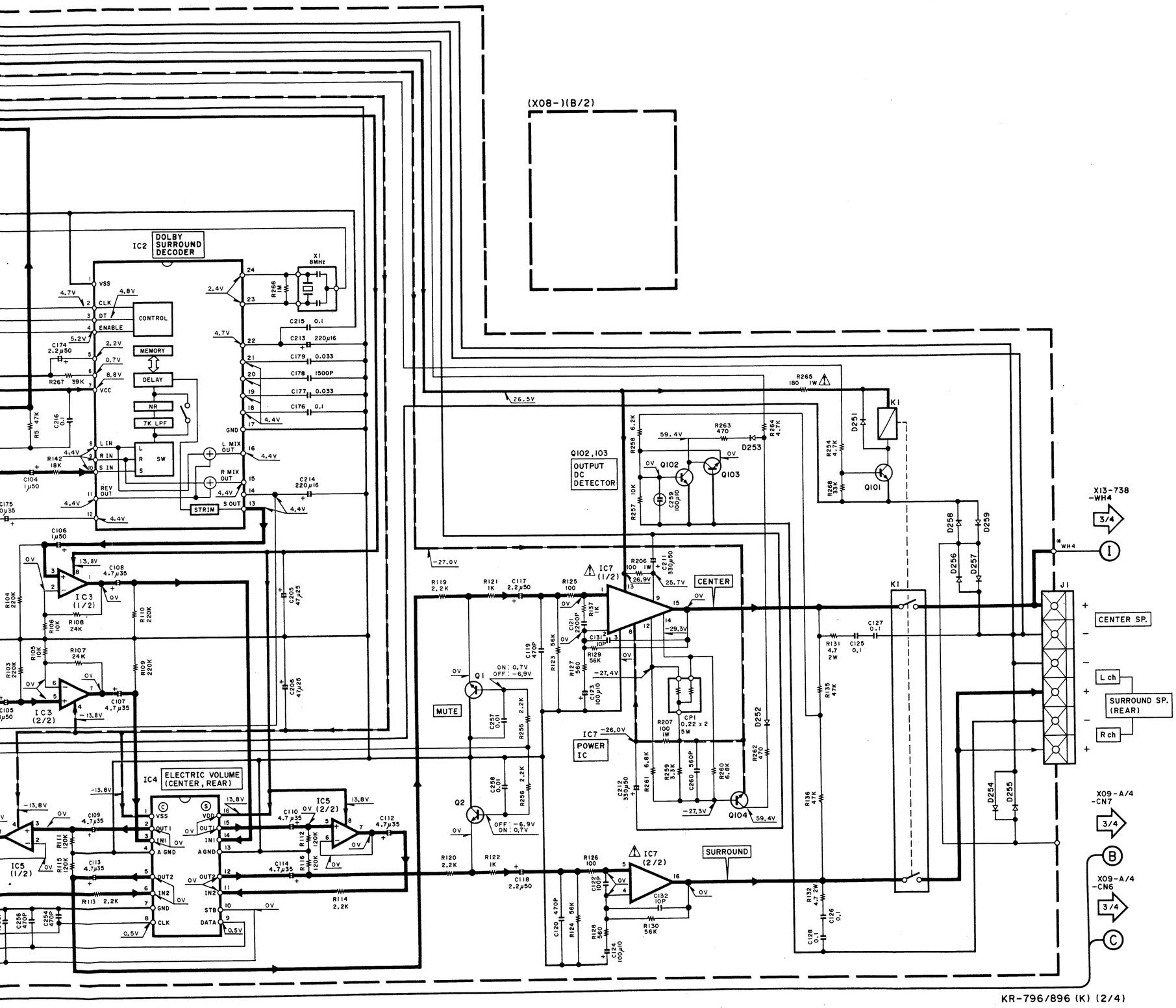
MODEL NAME	UNIT NAME	WH4
KR-796	X08-2630-10	NO
KR-896	X08-2630-12	YES

SIGNAL LINE
GND LINE
+B LINE
−B LINE

IC1 : LA2785
IC2 : LV1011
IC3,5 : NJM4565L-D
IC4 : TC9213P
IC6 : TC9215P
IC7 : STK401-051

Q1,2 : 2SC2878(B)
Q101~103 : 2SC2003(L,K)
Q104 : 2SC1845(F,E)
Q201 : 2SD2012 or 2SD2061

D201 : RD10ES(B) or HZS10N(B)
D251~259 : 1SS131 or HSS104A



CAUTION: Fo
manufacturer's
components. F
type and ratin
resistance me
insulated from

The DC volta
voltmeter with
vary dependin
DC voltage is

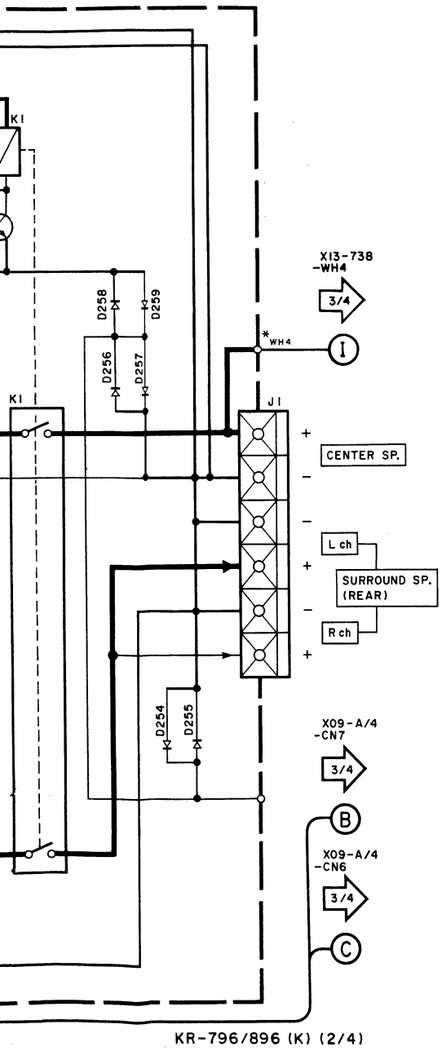
DOLBY and th
Corporation. M
Licensing Corp

NJM4565D
NJM4565D

LA2785

AN780575F
TA7812S

S-80740AL



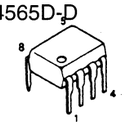
KR-796/896 (K) (2/4)

CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

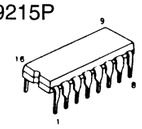
The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

NJM4565D
NJM4565D-D

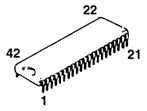


TC9213P
TC9215P

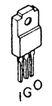


NJM4580D-D
XRA15218-DX

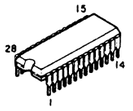
LA2785



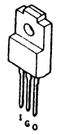
UPC7812AHF



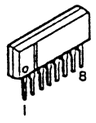
TC9164N



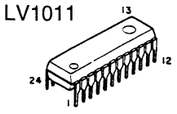
AN780575F
TA7812S



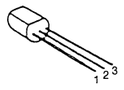
NJM4565L-D



LC7218
LV1011



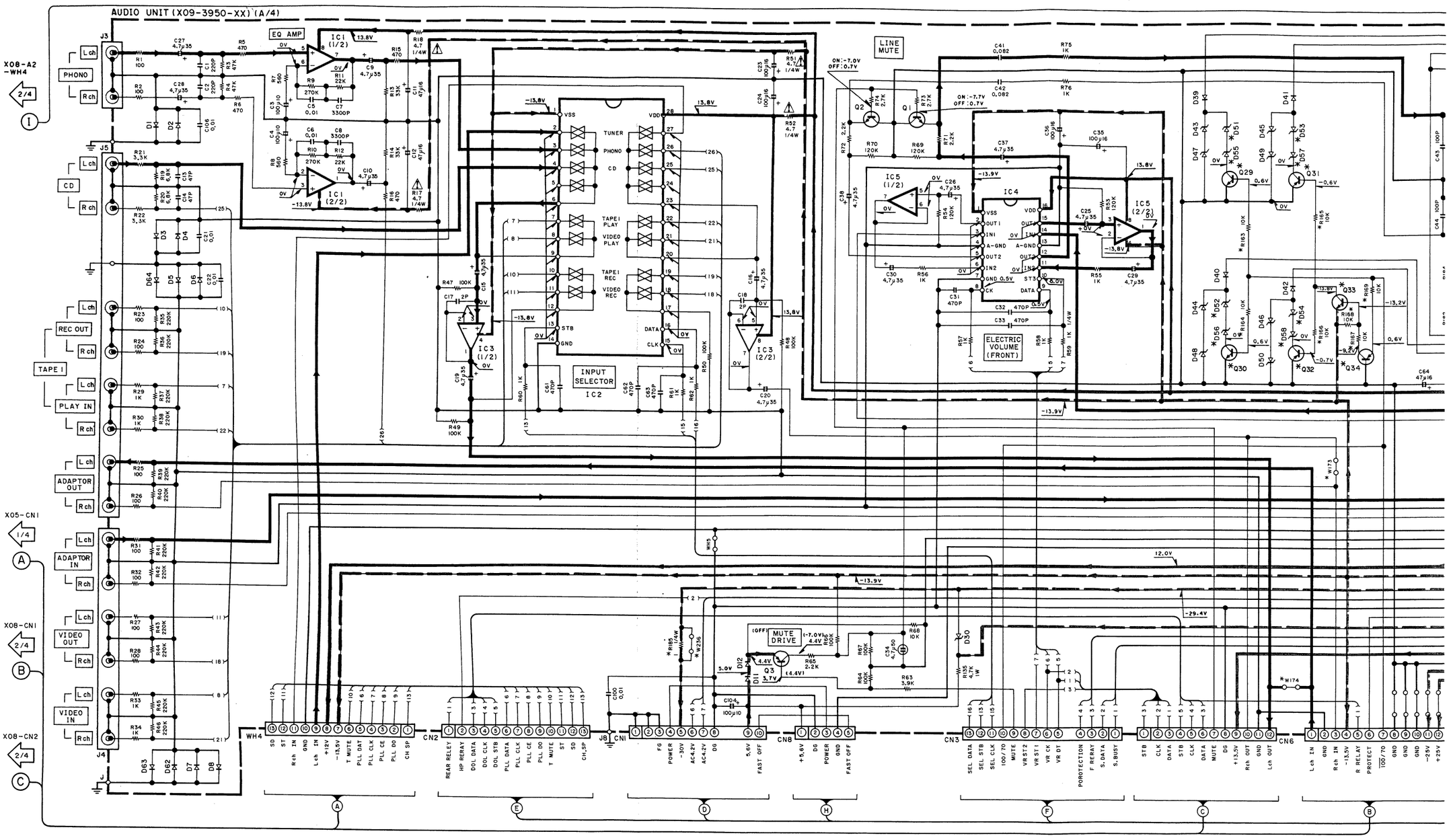
S-80740AL



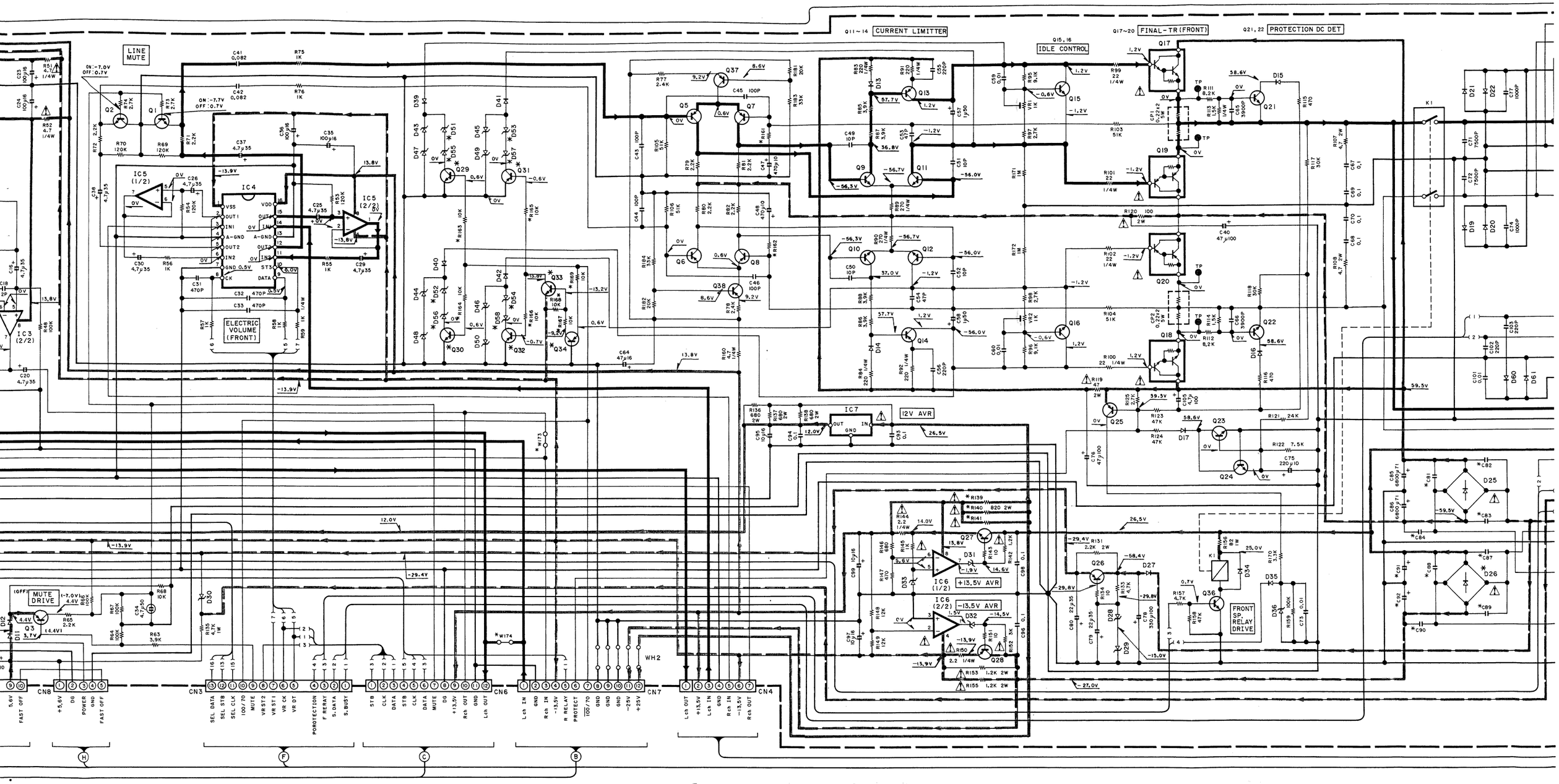
Y05-3150-00

KR-596/796/896

KENWOOD

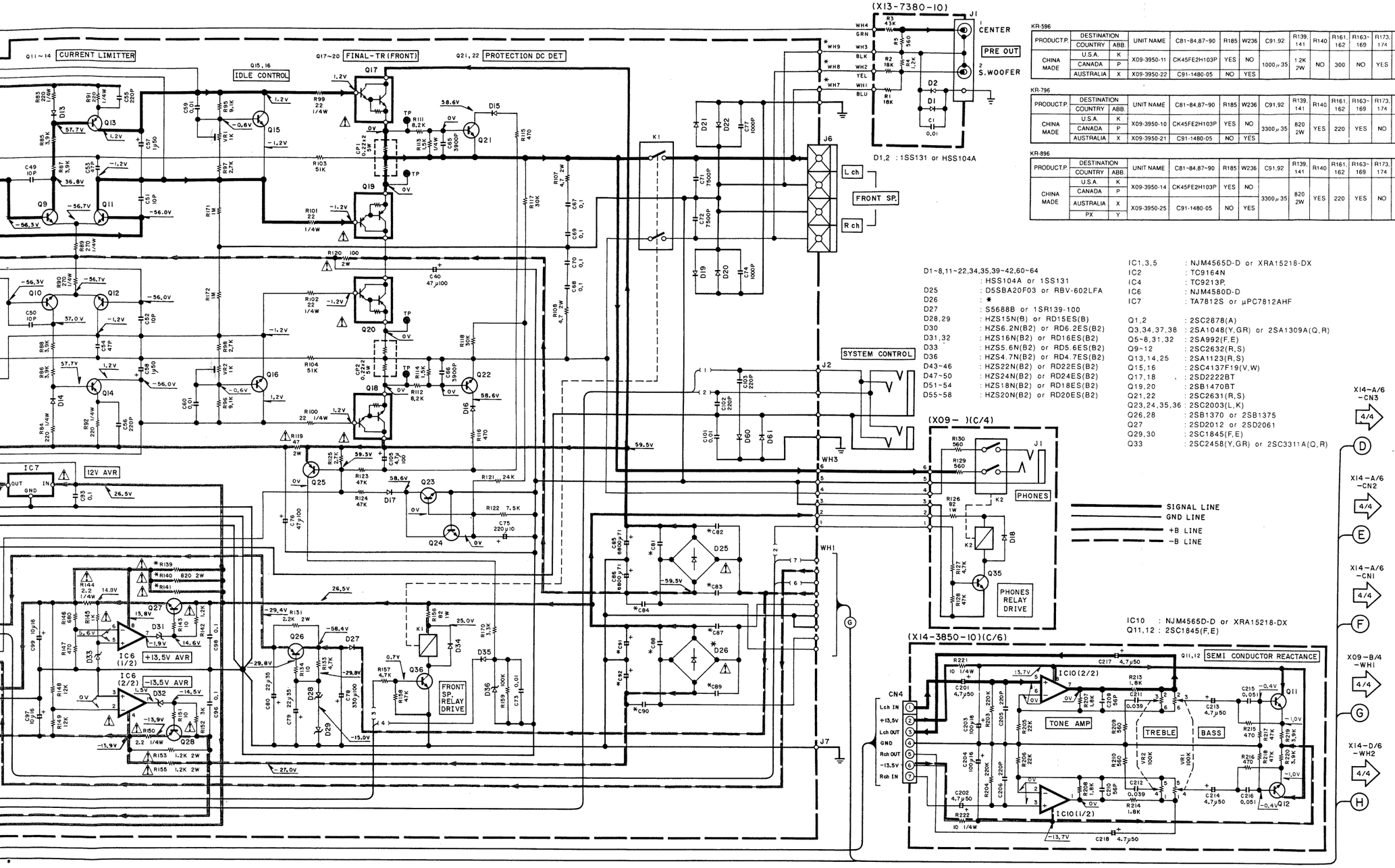


CAUTION: *For continued safety, replace safety critical components c manufacturer's recommended parts (refer to parts list). ⚠ indicates safet components. For continued protection against risk of fire, replace only w type and rating fuse(s). To reduce the risk of electric shock, leakage-c resistance measurements shall be carried out (exposed parts are ac insulated from the supply circuit) before the appliance is returned to the cus*



CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.



KR-596

PRODUCT P.	DESTINATION		UNIT NAME	C81~84,87~90	R185	W236	C91,92	R139, 141	R140	R161, 162	R163~169	R173, 174	D26	D51~58	Q29~34	WH1~9
	COUNTRY	ABB.														
CHINA MADE	U.S.A.	K	X09-3950-11	CK45FE2H103P	YES	NO	1000μ/35	1.2K 2W	NO	300	NO	YES	D3SBA20F03 or RBV-402LFA	NO	NO	NO
	CANADA	P														
	AUSTRALIA	X	X09-3950-22	C91-1480-05	NO	YES										

KR-796

PRODUCT P.	DESTINATION		UNIT NAME	C81~84,87~90	R185	W236	C91,92	R139, 141	R140	R161, 162	R163~169	R173, 174	D26	D51~58	Q29~34	WH1~9
	COUNTRY	ABB.														
CHINA MADE	U.S.A.	K	X09-3950-10	CK45FE2H103P	YES	NO	3300μ/35	820 2W	YES	220	YES	NO	D5SBA20F03 or RBV-602LFA	YES	YES	NO
	CANADA	P														
	AUSTRALIA	X	X09-3950-21	C91-1480-05	NO	YES										

KR-896

PRODUCT P.	DESTINATION		UNIT NAME	C81~84,87~90	R185	W236	C91,92	R139, 141	R140	R161, 162	R163~169	R173, 174	D26	D51~58	Q29~34	WH1~9
	COUNTRY	ABB.														
CHINA MADE	U.S.A.	K	X09-3950-14	CK45FE2H103P	YES	NO	3300μ/35	820 2W	YES	220	YES	NO	D5SBA20F03 or RBV-602LFA	YES	YES	YES
	CANADA	P														
	AUSTRALIA	X	X09-3950-25	C91-1480-05	NO	YES										
	PX	Y														

D1~8,11~22,34,35,39~42,60~64 : HSS104A or 1SS131
D25 : D5SBA20F03 or RBV-602LFA
D26 : *
D27 : S5688B or 1SR139-100
D28,29 : HZS15N(B) or RD15ES(B)
D30 : HZS6.2N(B2) or RD6.2ES(B2)
D31,32 : HZS16N(B2) or RD16ES(B2)
D33 : HZS5.6N(B2) or RD5.6ES(B2)
D36 : HZS4.7N(B2) or RD4.7ES(B2)
D43~46 : HZS22N(B2) or RD22ES(B2)
D47~50 : HZS24N(B2) or RD24ES(B2)
D51~54 : HZS18N(B2) or RD18ES(B2)
D55~58 : HZS20N(B2) or RD20ES(B2)

IC1,3,5 : NJM4565D-D or XRA15218-DX
IC2 : TC9164N
IC4 : TC9213P
IC6 : NJM4580D-D
IC7 : TA7812S or μPC7812AHF

Q1,2 : 2SC2878(A)
Q3,34,37,38 : 2SA1048(Y,GR) or 2SA1309A(Q,R)
Q5~8,31,32 : 2SA992(F,E)
Q9~12 : 2SC2632(R,S)
Q13,14,25 : 2SA1123(R,S)
Q15,16 : 2SC4137F19(V,W)
Q17,18 : 2SD2222BT
Q19,20 : 2SB1470BT
Q21,22 : 2SC2631(R,S)
Q23,24,35,36 : 2SC2003(L,K)
Q26,28 : 2SB1370 or 2SB1375
Q27 : 2SD2012 or 2SD2061
Q29,30 : 2SC1845(F,E)
Q33 : 2SC2458(Y,GR) or 2SC3311A(Q,R)

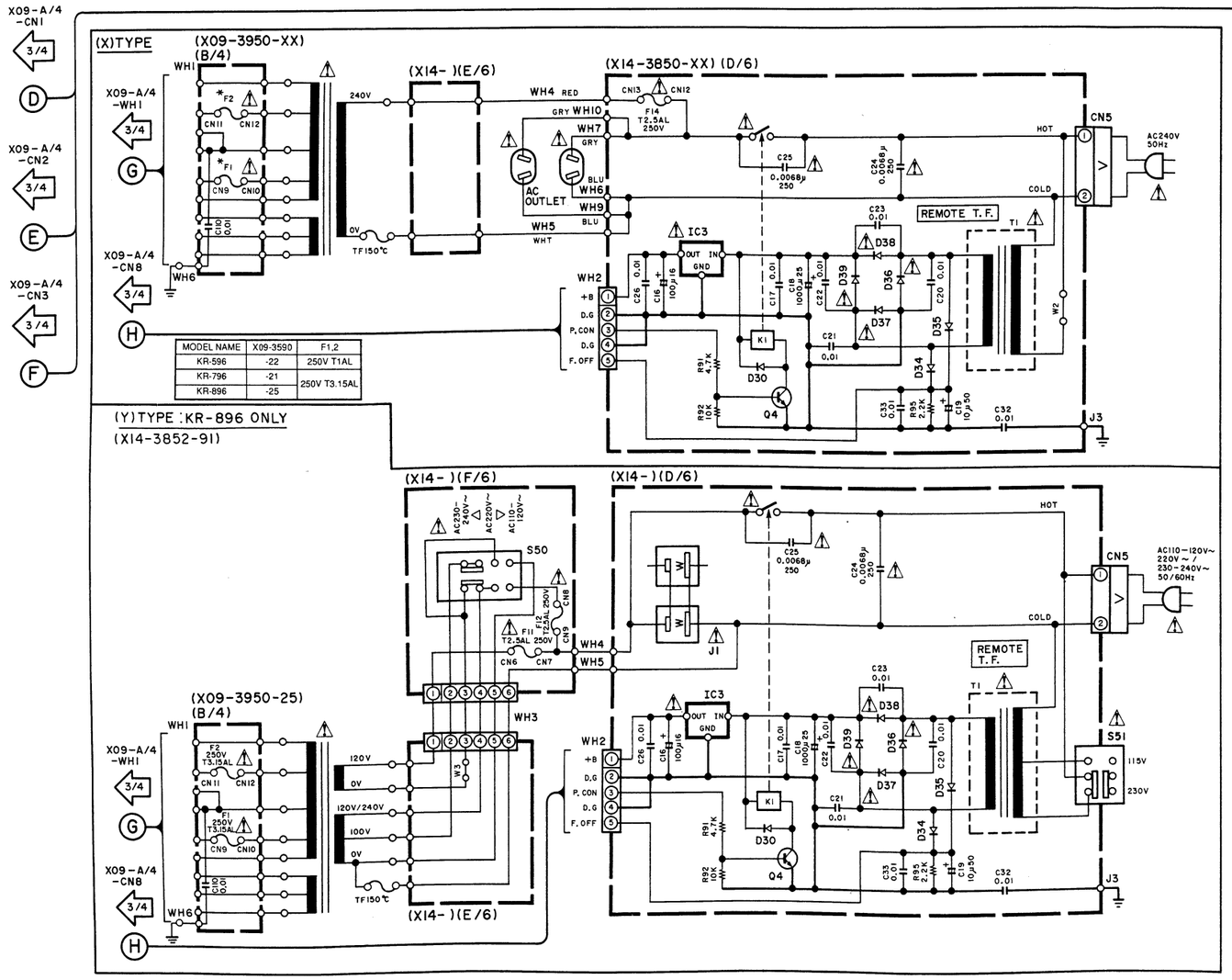
...ge is an actual reading measured with a high impedance type ... a cassette loaded at playback mode. The measurement value may ...g on the measuring instruments used or on the product. Bias circuit ... measured while in the record mode.

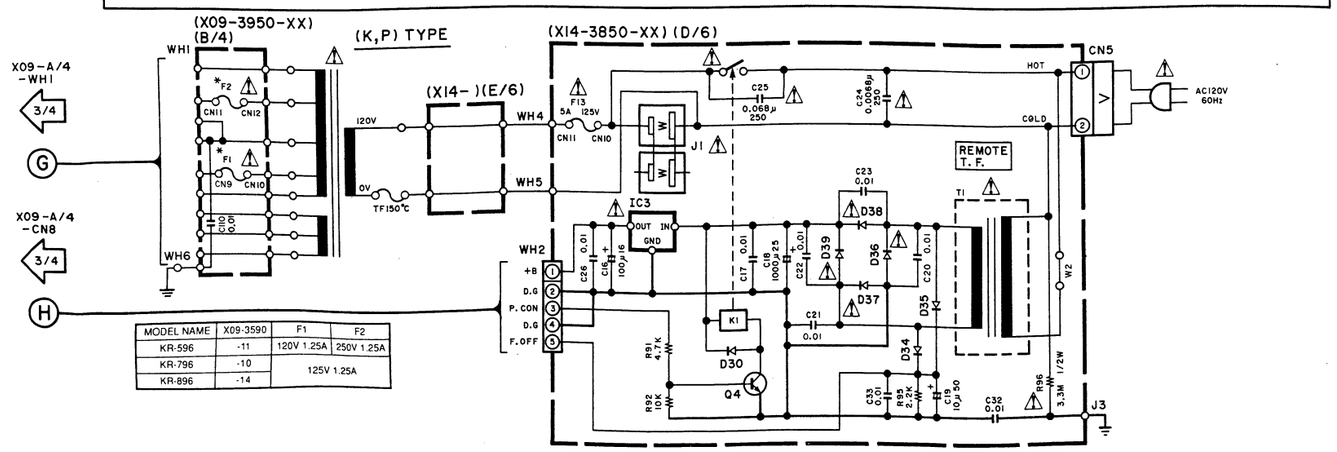
KR-596/796/896 (K) (3/4)

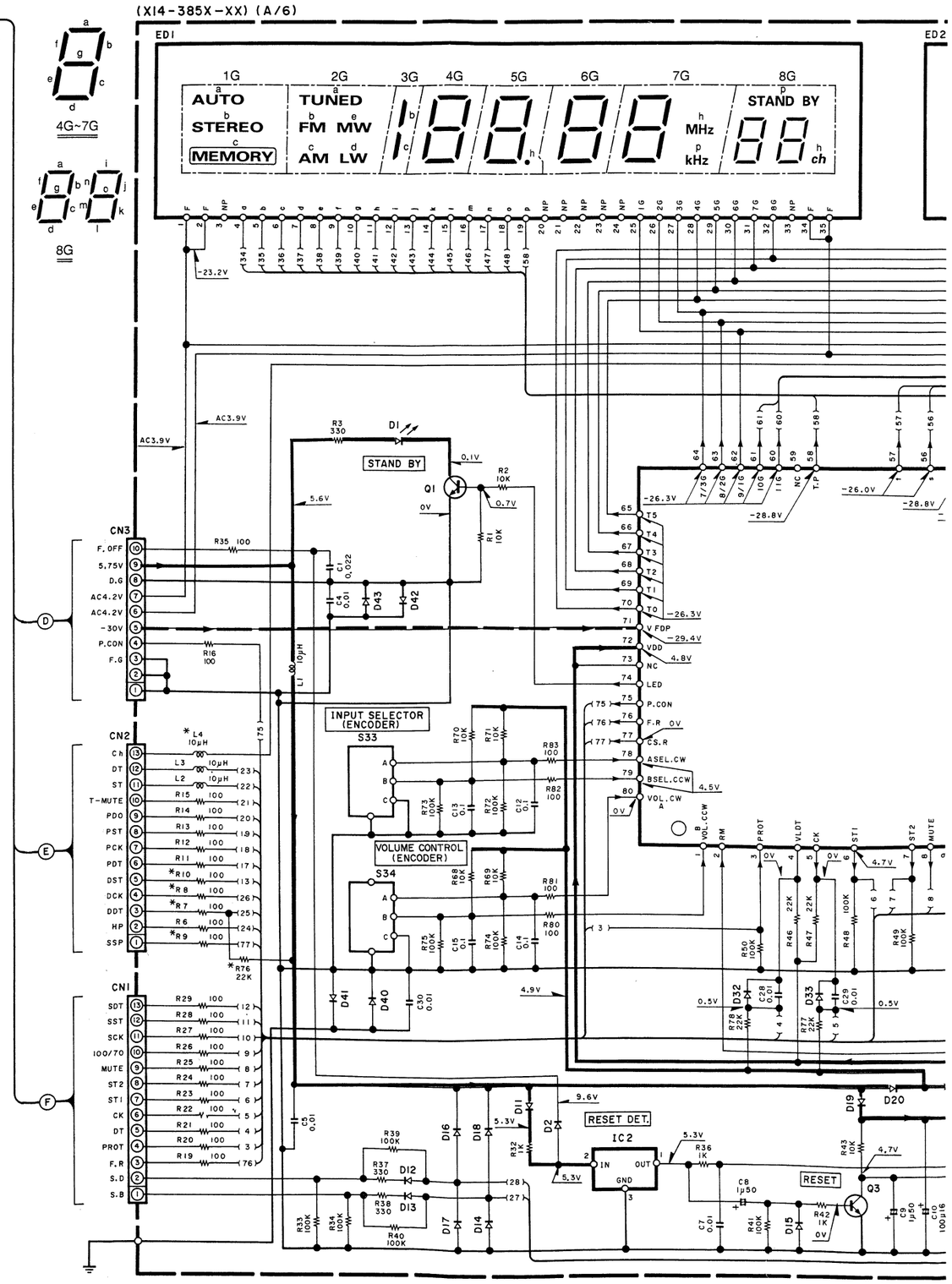
Y05-3150-00

KR-596/796/896

KENWOOD


(X)TYPE
(X09-3950-XX)
(B/4)
(X14-)(E/6)
(X14-3850-XX) (D/6)
X09-A/4 -CN1
X09-A/4 -WH1
X09-A/4 -CN2
X09-A/4 -CN8
X09-A/4 -CN3
3/4
WH1
WH2
WH3
WH4 RED
WH5 WHT
WH6
WH7 GRY
WH9 BLU
GRY WH10
BLU WH6
240V
0V
TF150℃
AC OUTLET
F14 T2.5AL 250V
CN5
HOT
COLD
AC240V 50Hz
REMOTE T.F.
T1
IC3
OUT IN GND
+B
D.G
P.CON
D.G
F.OFF
K1
Q4
D30
D34
D35
D36
D37
D38
D39
W2
J3
MODEL NAME | X09-3590 | F1,2
KR-596 | -22 | 250V T1AL
KR-796 | -21 | 250V T3.15AL
KR-896 | -25
(Y)TYPE :KR-896 ONLY
(X14-3852-91)
(X14-)(F/6)
(X14-)(D/6)
S50
AC230~ 240V~
AC220V~
AC110~ 120V~
F11 T2.5AL 250V
(X09-3950-25)
(B/4)
F2 250V T3.15AL
F1 250V T3.15AL
120V
120V/240V
100V
W3
J1
S51
115V
230V
AC110~120V~ 220V~ / 230~240V~ 50/60Hz


(X09-3950-XX)
(B/4)
(K,P) TYPE
(X14-3850-XX) (D/6)
(X14-)(E/6)
X09-A/4 -WH1
X09-A/4 -CN8
3/4
WH1
WH2
WH4
WH5
WH6
120V
0V
TF150℃
F13 5A 125V
CN11
CN10
HOT
COLD
CN5
AC120V 60Hz
REMOTE T.F.
T1
IC3
OUT IN GND
+B
D.G
P.CON
D.G
F.OFF
K1
Q4
D30
D34
D35
D36
D37
D38
D39
W2
J1
J3
MODEL NAME | X09-3590 | F1 | F2
KR-596 | -11 | 120V 1.25A | 250V 1.25A
KR-796 | -10 | 125V 1.25A
KR-896 | -14


(X14-385X-XX) (A/6)
ED1
ED2
1G AUTO STEREO MEMORY
2G TUNED FM MW AM LW
3G 4G 5G 6G 7G
8G STAND BY
MHz kHz ch
4G~7G
8G
CN3
F.OFF
5.75V
D.G
AC4.2V
AC4.2V
-30V
P.CON
F.G
CN2
CN1
AC3.9V
-23.2V
STAND BY
D1
Q1
R3 330
R2 10K
R1 10K
0.1V
0.7V
5.6V
0V
R35 100
C1 0.022
D43
D42
R16 100
L1 10μH
INPUT SELECTOR (ENCODER)
S33
VOLUME CONTROL (ENCODER)
S34
L4 10μH
L3 10μH
L2 10μH
-26.3V
-28.8V
-26.0V
V FDP
-29.4V
VDD
4.8V
NC
LED
P.CON
F.R
CS.R
ASEL.CW
BSEL.CCW
VOL.CW
VOL.CCW
4.5V
4.7V
4.9V
0.5V
9.6V
5.3V
RESET DET.
IC2
RESET
Q3
D11
D2
D19
D20
D16
D18
D12
D13
D17
D14
D15
D41
D40
D32
D33
C5 0.01
C8 1μ50
C10 100μ16
C9 1μ50

(X14-385X-XX) (A/6)

ED1

ED2

4G~7G

8G

IC1 : *
IC2 : S-80740AL
IC3 : AN780575F

Q1,3 : 2SC2458(Y,GR) or 2
Q2 : 2SA1048(Y,GR) or 2
Q4 : 2SC2003(L,K)

D1 : B30-2461-05
D2~35,40~43 : 1SS133 or HSS104
D36~39 : S5688B(TPB5)

A1 : W02-1046-05 or W02

ED1 : CM1270C
ED2 : FIP11SM8R

CN3 CN2 CN1

INPUT SELECTOR (ENCODER) S33

VOLUME CONTROL (ENCODER) S34

RESET DET. IC2

RESET Q3

STAND BY Q1

CH. SPACE *Q2

AUTO/MANU S16 +10 S19

MEMORY S14 1 S17 2 S20

PCALL S15 6 S18 7 S21

CENTER LEVEL REAR LEVEL

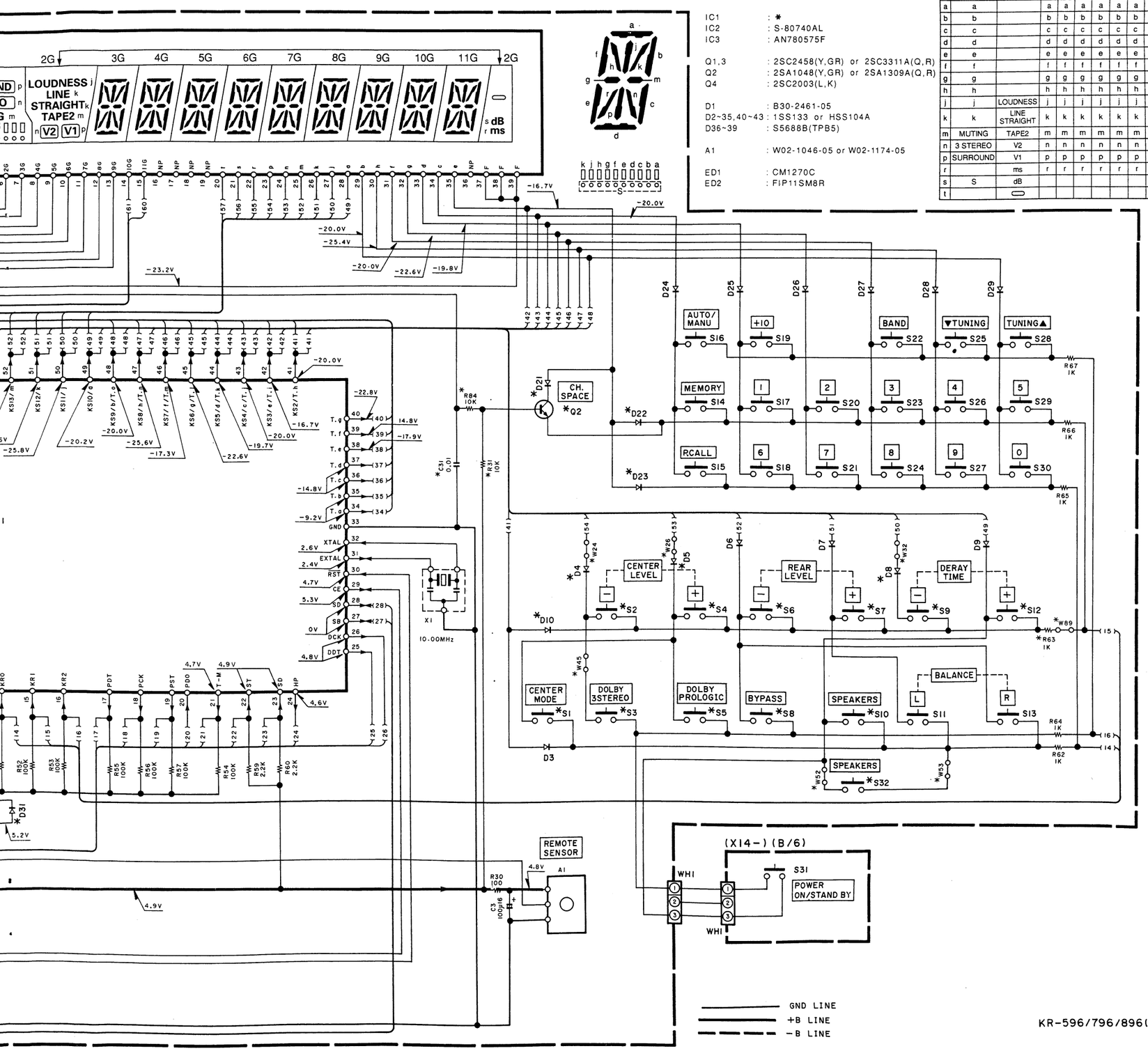
CENTER MODE *S1 DOLBY 3STEREO *S3 DOLBY PROLOGIC *S5 BYPASS *S8

REMOTE SENSOR A1

POWER ON/STAND BY S31

(X14-) (B/6)

GND LINE
+B LINE
-B LINE



IC1 : *
IC2 : S-80740AL
IC3 : AN780575F

Q1,3 : 2SC2458(Y,GR) or 2SC3311A(Q,R)
Q2 : 2SA1048(Y,GR) or 2SA1309A(Q,R)
Q4 : 2SC2003(L,K)

D1 : B30-2461-05
D2~35,40~43 : 1SS133 or HSS104A
D36~39 : S5688B(TPB5)

A1 : W02-1046-05 or W02-1174-05

ED1 : CM1270C
ED2 : FIP11SM8R

ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G
a	a		a	a	a	a	a	a	a	a	a
b	b		b	b	b	b	b	b	b	b	b
c	c		c	c	c	c	c	c	c	c	c
d	d		d	d	d	d	d	d	d	d	d
e	e		e	e	e	e	e	e	e	e	e
f	f		f	f	f	f	f	f	f	f	f
g	g		g	g	g	g	g	g	g	g	g
h	h		h	h	h	h	h	h	h	h	h
j	j	LOUDNESS	j	j	j	j	j	j	j	j	j
k	k	LINE STRAIGHT	k	k	k	k	k	k	k	k	k
m	MUTING	TAPE2	m	m	m	m	m	m	m	m	m
n	3 STEREO	V2	n	n	n	n	n	n	n	n	n
p	SURROUND	V1	p	p	p	p	p	p	p	p	p
r		ms	r	r	r	r	r	r	r	r	r
s	S	dB									
t											

CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

KR-596

PRODUCT P.	DESTINATION COUNTRY	ABB.	UNIT NAME	Q2	D21	D22	D23	L4	C31	R31, 84	D4,5,8, 10,31	C27	R7-10, 63,76	W24,26, 32,45,89	W52, 53	S1-10, 12	S32	IC1
CHINA MADE	U.S.A.	K	X14-3850-11	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	YES	CXP82320-162Q or CXP8232-156Q
	CANADA	P																
	AUSTRALIA	X	X14-3850-72	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	YES	NO	YES	YES	

KR-796/896

PRODUCT P.	DESTINATION COUNTRY	ABB.	UNIT NAME	Q2	D21	D22	D23	L4	C31	R31, 84	D4,5,8, 10,31	C27	R7-10, 63,76	W24,26, 32,45,89	W52, 53	S1-10, 12	S32	IC1
CHINA MADE	U.S.A.	K	X14-3850-10	NO	NO	NO	NO	NO	ON	NO	YES	YES	YES	YES	NO	YES	NO	CXP82320-162Q
	CANADA	P																
	AUSTRALIA PX	X	X14-3850-71	NO	NO	YES	YES	NO	NO	NO								
		Y	X14-3852-91	YES	YES	NO	YES	YES	YES	YES								

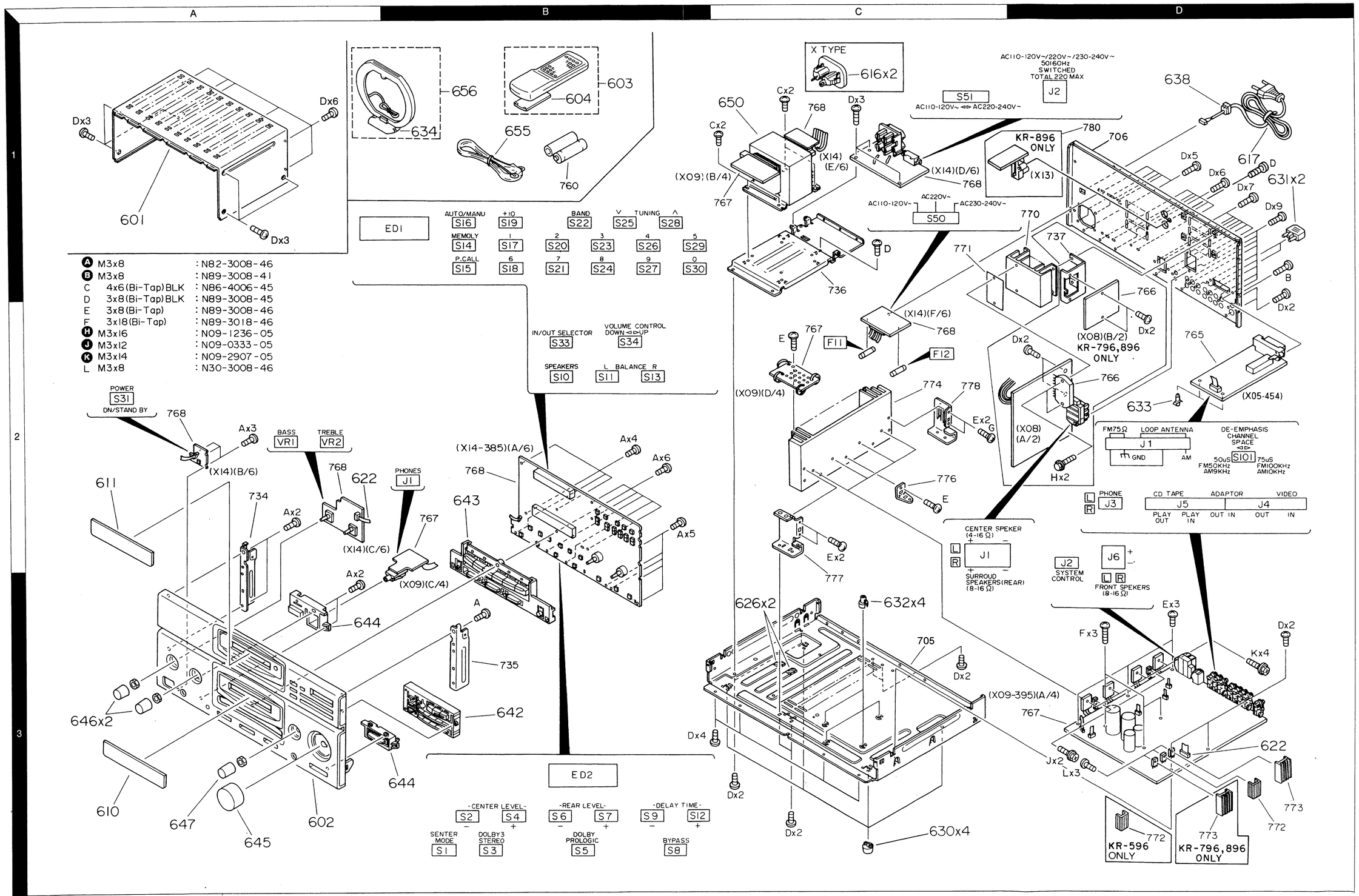
KR-596/796/896(K)(4/4)

Y05-3150-00

KR-596/796/896

KENWOOD

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

*New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliert.

1

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
				KR-596/796/896		
601	1A		A01-3107-21	METALLIC CABINET		
602	3A	*	A60-0867-01	PANEL (796)		
602	3A	*	A60-0868-01	PANEL (596)		
602	3A	*	A60-0869-01	PANEL (896)		
603	1B		A70-0974-05	REMOTE CONTROLLER ASSY (7,8)		
603	1B		A70-0975-05	REMOTE CONTROLLER ASSY (596)		
604	1B		A09-0170-08	BATTERY COVER		
610	3A		B03-2942-03	DRESSING PLATE		
611	2A		B03-2895-23	DRESSING PLATE		
-			B46-0092-43	WARRANTY CARD	KY	
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0121-33	WARRANTY CARD	P	
-			B58-0964-13	CAUTION CARD (UL)	KY	
-			B58-0965-13	CAUTION CARD (T,X TYPE PL)	X	
-			B58-0967-03	CAUTION CARD (P TYPE PL)	P	
-			B58-0968-04	CAUTION CARD (896)	Y	
-			B58-1505-03	CAUTION CARD	K	
-			B59-1104-00	SERVICE DIRECTORY (896)	Y	
-		*	B60-2531-00	INSTRUCTION MANUAL (ENGLISH)	PX	
-		*	B60-2532-00	INSTRUCTION MANUAL (FRENCH)	P	
⚠ 616	1C	*	E03-0326-05	AC OUTLET	X	
⚠ 617	1D		E30-2787-05	AC POWER CORD	KP	
⚠ 617	1D		E30-2789-05	AC POWER CORD (896)	Y	
⚠ 617	1D		E30-2790-05	AC POWER CORD	X	
622	2A,3D		E35-0765-05	FLAT CABLE		
-			G11-2221-04	CUSHION		
			H13-0188-04	CARTON BOARD	X	
-			H10-5698-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-5699-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-1517-04	PROTECTION BAG		
-		*	H50-1786-04	ITEM CARTON CASE (796)		
-		*	H50-1787-04	ITEM CARTON CASE (596)		
-		*	H50-1788-04	ITEM CARTON CASE (896)		
630	3C		J02-0366-15	FOOT		
631	1D		J12-0091-15	PIN		
632	3G		J19-3657-14	UNIT HOLDER		
633	2D		J19-3642-05	UNIT HOLDER		
634	3C		J19-3645-05	LOOP ANTENNA STAND		
⚠ 638	1D		J42-0083-05	POWER CORD BUSHING		
-		*	J61-0098-05	WIRE BAND		
642	3B		K29-6066-02	KNOB		
643	2B		K29-5862-12	KNOB (596)		
643	2B		K29-6089-02	KNOB (796)(896)		
644	3B		K29-5863-23	KNOB		
645	3A		K29-5864-04	KNOB		
646	3A		K29-5865-14	KNOB		
647	3A		K29-5866-04	KNOB		
⚠ 650	1C		L07-0880-15	POWER TRANSFORMER(796(896)	KP	
⚠ 650	1C		L07-0881-15	POWER TRANSFORMER (896	Y	

L : Scandinavia **K** : USA **P** : Canada **(596)** : KR-596 **(796)** : KR-796
Y : PX(Far East, Hawaii) **T** : Europe **E** : Europe **(896)** : KR-896
Y : AAFES(Europe) **X** : Australia **M** : Other Areas ⚠ indicates safety critical components.

*New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliert.

2

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
⚠ 650	1C		L07-0882-15	POWER TRANSFORMER (796)(896)	X	
⚠ 650	1C		L07-0883-25	POWER TRANSFORMER (596)	K	
⚠ 650	1C		L07-0885-15	POWER TRANSFORMER (596)	X	
⚠ 650	1C		L07-0970-15	POWER TRANSFORMER (596)	P	
655	1B		T90-0801-05	LEAD WIRE ANTENNA		
656	1B		T90-0195-05	LOOP ANTENNA		
				TUNER UNIT : X05-4540-XX		
C1,2			CK73FB1H103K	CHIP C 0.010UF K		
C4			CE04LW1A470M	ELECTRO 47UF 10WV		
C5			CK73FB1H103K	CHIP C 0.010UF K		
C8			CK73FB1H103K	CHIP C 0.010UF K		
C10			CK73FB1H102K	CHIP C 1000PF K		
C11			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		
C13			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C14			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C21,22			CQ92FM1H163J	MYLAR 0.016UF J	YX	
C21,22			CQ92FM1H243J	MYLAR 0.024UF J	KP	
C23			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C24			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C25			CE04LW1V100M	ELECTRO 10UF 35WV		
C27			CK73FB1E473K	CHIP C 0.047UF K		
C28			CE04LW1V100M	ELECTRO 10UF 35WV		
C31			CE04LW1A470M	ELECTRO 47UF 10WV		
C32			CK73FB1H103K	CHIP C 0.010UF K		
C33			CC73FCH1H270J	CHIP C 27PF J		
C34			CC73FCH1H220J	CHIP C 22PF J		
C35-38			CK73FB1H471K	CHIP C 470PF K		
C39			CE04LW1C470M	ELECTRO 47UF 16WV		
C40			CK73FB1H223K	CHIP C 0.022UF K		
C41			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C42,43			CK73FB1H103K	CHIP C 0.010UF K		
C50			C91-0769-05	CERAMIC 0.010UF K		
C51			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C52			CE04LW1C470M	ELECTRO 47UF 16WV		
C57			CC73FSL1H220J	CHIP C 22PF J		
C65			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C66			CK73FB1H102K	CHIP C 1000PF K		
C71			CE04LW1V100M	ELECTRO 10UF 35WV		
C72			CE04LW1C470M	ELECTRO 47UF 16WV		
C103-106			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C107			CK73FB1E473K	CHIP C 0.047UF K		
C112			CC73FSL1H101J	CHIP C 100PF J		
C114			CK73FB1H681K	CHIP C 680PF K		
C115,116			CC73FSL1H101J	CHIP C 100PF J		
C121,122			CE04LW1C470M	ELECTRO 47UF 16WV		
C135,136			CQ92FM1H682J	MYLAR 6800PF J	Y	
C182			CC73FSL1H150J	CHIP C 15PF J		
CN1			E40-4234-05	FLAT CABLE CONNECTOR		
J1	2D		E70-0051-05	LOCK TERMINAL BOARD		
J2			F10-0920-14	SHIELDING PLATE		
CF1,2			L72-0531-05	CERAMIC FILTER		
CF3			L72-0574-05	CERAMIC FILTER		
L7			L30-0467-05	AM IFT		

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3

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
L10			L40-1091-17	SMALL FIXED INDUCTOR(1UH)				
L11			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)				
L12			L40-1091-17	SMALL FIXED INDUCTOR(1UH)				
L103			L39-1328-05	COMBINATION COIL				
L106			L40-1091-17	SMALL FIXED INDUCTOR(1UH)				
X1			L77-2148-05	CRYSTAL RESONATOR(7.2MHZ)				
X2			L78-0295-05	RESONATOR (456KHZ)				
R1			RK73FB2A681J	CHIP R	680	J 1/10W		
R2			RK73FB2A332J	CHIP R	3.3K	J 1/10W		
R3			RK73FB2A331J	CHIP R	330	J 1/10W		
R4			RK73FB2A470J	CHIP R	47	J 1/10W		
R6			RK73FB2A331J	CHIP R	330	J 1/10W		
⚠ R11			RS14KB3A820J	FL-PROOF RS	82	J 1W		
R15			RK73FB2A391J	CHIP R	390	J 1/10W		
R19			RK73FB2A332J	CHIP R	3.3K	J 1/10W		
R21,22			RK73FB2A393J	CHIP R	39K	J 1/10W		
R24			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R25			RK73FB2A103J	CHIP R	10K	J 1/10W		
⚠ R31			RS14KB3D221J	FL-PROOF RS	220	J 2W		
R32-37			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R38			RK73FB2A221J	CHIP R	220	J 1/10W		
R39			RK73FB2A822J	CHIP R	8.2K	J 1/10W		
R40			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
⚠ R42			RD14NB2E101J	RD	100	J 1/4W		
R43			RK73FB2A103J	CHIP R	10K	J 1/10W		
R52			RK73FB2A472J	CHIP R	4.7K	J 1/10W		
R64			RK73FB2A104J	CHIP R	100K	J 1/10W		
R101,102			RK73FB2A333J	CHIP R	33K	J 1/10W		
R105,106			RK73FB2A123J	CHIP R	12K	J 1/10W		
⚠ R111			RD14NB2E470J	RD	47	J 1/4W		
R118			RK73FB2A122J	CHIP R	1.2K	J 1/10W		
R119			RK73FB2A123J	CHIP R	12K	J 1/10W		
R122			RK73FB2A122J	CHIP R	1.2K	J 1/10W		
R123			RK73FB2A123J	CHIP R	12K	J 1/10W		
R124			RK73FB2A103J	CHIP R	10K	J 1/10W		
R125,126			RK73FB2A332J	CHIP R	3.3K	J 1/10W		
⚠ R127,128			RD14NB2E101J	RD	100	J 1/4W		
R131,132			RK73FB2A393J	CHIP R	39K	J 1/10W		
R138,139			RK73FB2A561J	CHIP R	560	J 1/10W	Y	
R140,141			RK73FB2A473J	CHIP R	47K	J 1/10W	Y	
R151			RK73FB2A821J	CHIP R	820	J 1/10W		
R152			RK73FB2A473J	CHIP R	47K	J 1/10W		
R153			RK73FB2A472J	CHIP R	4.7K	J 1/10W		
R156,157			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R167			RK73FB2A104J	CHIP R	100K	J 1/10W		
W46			R92-0670-05	CHIP R	0 OHM			
W48			R92-0670-05	CHIP R	0 OHM			
S101			S62-0034-05	SLIDE SWITCH			Y	
D3			HZS5.1N(B2)	ZENER DIODE				
D3			RD5.1ES(B2)	ZENER DIODE				
D4			HZS3.3N(B2)	ZENER DIODE				
D4			RD3.3ES(B2)	ZENER DIODE				
D7			MA111	DIODE				

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4

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
D8			HSS104	DIODE		
D8			1SS133	DIODE		
D11			HZS8.2N(B2)	ZENER DIODE		
D11			RD8.2ES(B2)	ZENER DIODE		
D111,112			MA111	DIODE		
IC1			LA1831A-KEN	ANALOGUE IC		
IC2			LC7218	IC(PLL FREQUENCY SYNTHESIZER)		
IC12			NJM4565D	IC(OP AMP X2)		
Q1			2SC2714(R,O)	TRANSISTOR		
Q2			2SC1845(F,E)	TRANSISTOR		
Q2			2SC2389S(S,E)	TRANSISTOR		
Q3			2SC1740S(Q,R)	TRANSISTOR		
Q3			2SC2785(F,E)	TRANSISTOR		
Q7			2SC2412K	TRANSISTOR		
⚠ Q11			2SD863(E,F)	TRANSISTOR		
Q102			2SA1037K	TRANSISTOR		
Q104			2SA1037K	TRANSISTOR		
Q107-110			2SC2412K	TRANSISTOR	Y	
Q109,110			2SC2412K	TRANSISTOR	KPX	
Q111			2SA1037K	TRANSISTOR		
DT1			W02-2512-05	FM FRONT-END ASSY		
				SURROUND UNIT : X08-2630-XX(KR-796/896)		
C1,2			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C3,4			CE04LW1V100M	ELECTRO 10UF 35WV		
C5-8			CF92FV1H104J	MF-C 0.10UF J		
C102			CF92FV1H394J	MF-C 0.39UF J		
C104-106			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C107-114			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C117,118			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C119,120			CK45FB1H471K	CERAMIC 470PF K		
C121			CK45FB1H222K	CERAMIC 2200PF K		
C122			CC45FSL1H101J	CERAMIC 100PF J		
C123,124			CE04LW1A101M	ELECTRO 100UF 10WV		
C125-128			CF92FV1H104J	MF-C 0.10UF J		
C131,132			CC45FSL1H100D	CERAMIC 10PF D		
C151			CF92FV1H223J	MF-C 0.022UF J		
C152			CQ92FM1H473J	MYLAR 0.047UF J		
C153-156			CE04LW1V100M	ELECTRO 10UF 35WV		
C157			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C158			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C159			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C160			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C161			CF92FV1H154J	MF-C 0.15UF J		
C162			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C163,164			CF92FV1H154J	MF-C 0.15UF J		
C165			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C166			CF92FV1H154J	MF-C 0.15UF J		
C167			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C168			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C169			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C170			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C171			CE04LW1C470M	ELECTRO 47UF 16WV		
C172			CF92FV1H474J	MF-C 0.47UF J		
C173			CK45FB1H681K	CERAMIC 680PF K		

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5

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C174			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C175			CE04LW1V100M	ELECTRO	10UF	35WV		
C176			CF92FV1H105J	MF-C	1.0UF	J		
C177			CF92FV1H333J	MF-C	0.033UF	J		
C178			CF92FV1H152J	MF-C	1500PF	J		
C179			CF92FV1H333J	MF-C	0.033UF	J		
C201			CE04LW1V100M	ELECTRO	10UF	35WV		
C203			CF92FV1H104J	MF-C	0.10UF	J		
C204			CE04LW1C101M	ELECTRO	100UF	16WV		
C205,206			CE04LW1E470M	ELECTRO	47UF	25WV		
C207,208			CE04LW1C221M	ELECTRO	220UF	16WV		
C211,212			CE04LW1H331M	ELECTRO	330UF	50WV		
C213,214			CE04LW1C221M	ELECTRO	220UF	16WV		
C215,216			CF92FV1H104J	MF-C	0.10UF	J		
C251			C91-0757-05	CERAMIC	1000PF	K		
C252,253			C91-0749-05	CERAMIC	220PF	K		
C254			C91-0753-05	CHIP C	470PF	K		
C255			C91-0757-05	CERAMIC	1000PF	K		
C256			C91-0753-05	CHIP C	470PF	K		
C257,258			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C259			CE04HW1A101M	NP-ELEC	100UF	10WV		
C260			CK45FB1H561K	CERAMIC	560PF	K		
CN1,2			E40-4746-05	SOCKET FOR PIN ASSY				
J1			E70-0046-05	LOCK TERMINAL BOARD				
X1			L78-0290-05	RESONATOR	(8MHZ)			
CP1			R90-0826-05	MULTI-COMP	0.22X2	J 5W		
R131,132			RS14KB3D4R7J	FL-PROOF RS	4.7	J 2W		
R206,207			RS14KB3A101J	FL-PROOF RS	100	J 1W		
⚠ R265			RS14KB3A181J	FL-PROOF RS	180	J 1W		
R267			RN14BK2C3902F	RN	39.0K	F 1/6W		
K1			S76-0036-05	MAGNETIC RELAY				
D201			HZS10N(B)	ZENER DIODE				
D201			RD10ES(B)	ZENER DIODE				
D251-259			HSS104A	DIODE				
D251-259			1SS131	DIODE				
IC1			LA2785	IC(DOLBY PRO LOGIC DECODER IC)				
IC2			LV1011	DI BI-POLAR IC				
IC3			NJM4565L-D	ANALOGUE IC				
IC4			TC9213P	IC(2CH ELECTRONIC VOLUME)				
IC5			NJM4565L-D	ANALOGUE IC				
IC6			TC9215P	IC(ANALOG SWITCH X 6)				
IC7			STK401-051	IC(30W AF POWER AMP)				
Q1,2			2SC2878(B)	TRANSISTOR				
Q101-103			2SC2003(L,K)	TRANSISTOR				
Q104			2SC1845(F,E)	TRANSISTOR				
⚠ Q201			2SD2012	TRANSISTOR				
⚠ Q201			2SD2061(E,F)	TRANSISTOR				
AUDIO UNIT : X09-3950-XX								
C1,2			CC45FSL1H221J	CERAMIC	220PF	J		
C3,4			CE04LW1A101M	ELECTRO	100UF	10WV		
C5,6			CQ92FM1H103J	MYLAR	0.010UF	J		
C7,8			CQ92FM1H332J	MYLAR	3300PF	J		

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6

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C9,10			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C11,12			CE04LW1C470M	ELECTRO	47UF	16WV		
C13,14			C91-0737-05	CERAMIC	47PF	J		
C15,16			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C17,18			CC45FSL1H020C	CERAMIC	2.0PF	C		
C19,20			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C21,22			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C23,24			CE04LW1C101M	ELECTRO	100UF	16WV		
C25-30			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C31-33			C91-0753-05	CHIP C	470PF	K		
C34			CE04HW1H4R7M	NP-ELEC	4.7UF	50WV		
C35,36			CE04LW1C101M	ELECTRO	100UF	16WV		
C37,38			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C40			CE04LW2A470M	ELECTRO	47UF	100WV		
C41,42			CQ92FM1H823J	MYLAR	0.082UF	J		
C43-46			CC45FSL1H101J	CERAMIC	100PF	J		
C47,48			CE04LW1A471M	ELECTRO	470UF	10WV		
C49-52			CC45FSL1H100D	CERAMIC	10PF	D		
C53,54			CC45FSL1H470J	CERAMIC	47PF	J		
C55,56			CC45FSL1H221J	CERAMIC	220PF	J		
C57,58			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C59,60			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C61			CK45FB1H471K	CERAMIC	470PF	K		
C62,63			C91-0753-05	CHIP C	470PF	K		
C64			CE04LW1C470M	ELECTRO	47UF	16WV		
C65,66			CQ92FM1H392J	MYLAR	3900PF	J		
C67-70			CF92FV1H104J	MF-C	0.10UF	J		
C71,72			CQ92FM1H752J	MYLAR	7500PF	J		
C73			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C74			CK45FB1H102K	CERAMIC	1000PF	K		
C75			CE04LW1A221M	ELECTRO	220UF	10WV		
C76			CE04LW2A470M	ELECTRO	47UF	100WV		
C77			CK45FB1H102K	CERAMIC	1000PF	K		
C78			CE04LW2A331M	ELECTRO	330UF	100WV		
C79,80			CE04LW1V220M	ELECTRO	22UF	35WV		
C81-84			CK45FE2H103P	CERAMIC	0.010UF	P	KP	
C81-84			C91-1480-05	MP	0.22UF	250WV	YX	
C85,86			C90-3579-05	ELECTRO	4700UF	71WV		
C87-90			CK45FE2H103P	CERAMIC	0.010UF	P	KP	
C87-90			C91-1480-05	MP	0.22UF	250WV	YX	
C91,92			CE04LW1V102M	ELECTRO	1000UF	35WV		
C91,92			CE04LW1V332M	ELECTRO	3300UF	35WV		
C93,94			CQ92FM1H104J	MYLAR	0.10UF	J		
C95			CE04LW1C100M	ELECTRO	10UF	16WV		
C96			CQ92FM1H104J	MYLAR	0.10UF	J		
C97			CE04LW1C100M	ELECTRO	10UF	16WV		
C98			CQ92FM1H104J	MYLAR	0.10UF	J		
C99			CE04LW1C100M	ELECTRO	10UF	16WV		
C100,101			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C102,103			CC45FSL1H221J	CERAMIC	220PF	J		
C104			CE04LW1A101M	ELECTRO	100UF	10WV		
C105			CE04LW2A4R7M	ELECTRO	4.7UF	100WV		
C106			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C110			CK45FF1H103Z	CERAMIC	0.010UF	Z		

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7

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CN1			E40-4615-05	SOCKET FOR PIN ASSY				
CN2,3			E40-4590-05	SOCKET FOR PIN ASSY				
CN4			E40-4147-05	FLAT CABLE CONNECTOR				
CN6,7			E40-4747-05	PIN ASSY				
CN8			E40-4295-05	FLAT CABLE CONNECTOR				
J1			E11-0207-05	PHONE JACK (3P)				
J2			E11-0188-05	MINIATURE PHONE JACK(2P)				
J3			E63-0133-15	PHONO JACK				
J4			E63-0139-15	PHONO JACK				
J5			E63-0141-15	PHONO JACK				
J6			E70-0053-05	LOCK TERMINAL BOARD				
⚠ F1,2			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)			YX	
⚠ F1,2			F05-4028-05	FUSE (UL) (125V 4A)			KP	
⚠ F1,2			F06-1022-05				X	
⚠ F1,2			F06-1222-05				KP	
CN9-12			J13-0075-05	FUSE CLIP				
CP1,2			R90-0826-05	MULTI-COMP	0.22X2	J 5W		
⚠ R17,18			RD14NB2E4R7J	RD	4.7	J 1/4W		
⚠ R51,52			RD14NB2E4R7J	RD	4.7	J 1/4W		
R83,84			RD14NB2E221J	RD	220	J 1/4W		
R89,90			RD14NB2E271J	RD	270	J 1/4W		
R91,92			RD14NB2E221J	RD	220	J 1/4W		
R99-102			RD14NB2E220J	RD	22	J 1/4W		
R107,108			RS14KB3D4R7J	FL-PROOF RS	4.7	J 2W		
⚠ R119			RS14KB3D470J	FL-PROOF RS	47	J 2W		
⚠ R120			RS14KB3D101J	FL-PROOF RS	100	J 2W		
R126			RS14KB3A820J	FL-PROOF RS	82	J 1W		
R129,130			RS14KB3D561J	FL-PROOF RS	560	J 2W		
R131			RS14KB3D222J	FL-PROOF RS	2.2K	J 2W		
R135			RS14KB3A472J	FL-PROOF RS	4.7K	J 1W		
R136-138			RS14KB3D681J	FL-PROOF RS	680	J 2W		
R139			RS14KB3D122J	FL-PROOF RS	1.2K	J 2W		
⚠ R139-141			RS14KB3D821J	FL-PROOF RS	820	J 2W		
⚠ R144			RD14NB2E2R2J	RD	2.2	J 1/4W		
⚠ R150			RD14NB2E2R2J	RD	2.2	J 1/4W		
⚠ R153			RS14KB3D122J	FL-PROOF RS	1.2K	J 2W		
⚠ R155			RS14KB3D122J	FL-PROOF RS	1.2K	J 2W		
R156			RS14KB3A820J	FL-PROOF RS	82	J 1W		
R160			RD14NB2E4R7J	RD	4.7	J 1/4W		
R185			RD14GB2E1R0J	FL-PROOF RD	1.0	J 1/4W	KP	
VR1,2			R12-1616-05	TRIMMING POT.(1K)				
K1			S51-2078-05	MAGNETIC RELAY				
K2			S76-0005-05	MAGNETIC RELAY				
D1-8			HSS104A	DIODE				
D1-8			1SS131	DIODE				
D11-22			HSS104A	DIODE				
D11-22			1SS131	DIODE				
D25,26			D5SBA20F03	DIODE				
D25,26			RBV-602LFA	DIODE				
D26			D3SBA20F03	DIODE				
D26			RBV-402LFA	DIODE				
D27			S5688B	DIODE				
D27			1SR139-100	DIODE				

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8

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
D28,29			HZS15N(B)	ZENER DIODE		
D28,29			RD15ES(B)	ZENER DIODE		
D30			HZS6.2N(B2)	ZENER DIODE		
D30			RD6.2ES(B2)	ZENER DIODE		
D31,32			HZS16N(B2)	ZENER DIODE		
D31,32			RD16ES(B2)	ZENER DIODE		
D33			HZS5.6N(B2)	ZENER DIODE		
D33			RD5.6ES(B2)	ZENER DIODE		
D34,35			HSS104A	DIODE		
D34,35			1SS131	DIODE		
D36			HZS4.7N(B2)	ZENER DIODE		
D36			RD4.7ES(B2)	ZENER DIODE		
D39-42			HSS104A	DIODE		
D39-42			1SS131	DIODE		
D43-46			HZS22N(B2)	ZENER DIODE		
D43-46			RD22ES(B2)	ZENER DIODE		
D47-50			HZS24N(B2)	ZENER DIODE		
D47-50			RD24ES(B2)	ZENER DIODE		
D51-54			HZS18N(B2)	ZENER DIODE		
D51-54			RD18ES(B2)	ZENER DIODE		
D55-58			HZS20N(B2)	ZENER DIODE		
D55-58			RD20ES(B2)	ZENER DIODE		
D60-64			HSS104A	DIODE		
D60-64			1SS131	DIODE		
IC1			NJM4565D-D	IC(OP AMP X2)		
IC1			XRA15218-DX	IC(OP AMP X2)		
IC2			TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC3			NJM4565D-D	IC(OP AMP X2)		
IC3			XRA15218-DX	IC(OP AMP X2)		
IC4			TC9213P	IC(2CH ELECTRONIC VOLUME)		
IC5			NJM4565D-D	IC(OP AMP X2)		
IC5			XRA15218-DX	IC(OP AMP X2)		
IC6			NJM4580D-D	IC(OP AMP X2)		
IC7			TA7812S	IC(VOLTAGE REGULATOR/ +12V)		
IC7			UPC7812AHF	IC(VOLTAGE REGULATOR/ +12V)		
Q1,2			2SC2878(B)	TRANSISTOR		
Q3			2SA1048(Y,GR)	TRANSISTOR		
Q3			2SA1309A(Q,R)	TRANSISTOR		
Q5-8			2SA992(F,E)	TRANSISTOR		
Q9-12			2SC2632(R,S)	TRANSISTOR		
Q13,14			2SA1123(R,S)	TRANSISTOR		
Q15,16			2SC4137F19(V,W)	TRANSISTOR		
Q17,18			2SD2222BT	TRANSISTOR		
Q19,20			2SB1470BT	TRANSISTOR		
Q21,22			2SC2631(R,S)	TRANSISTOR		
Q23,24			2SC2003(L,K)	TRANSISTOR		
Q25			2SA1123(R,S)	TRANSISTOR		
Q26			2SB1370	TRANSISTOR		
Q26			2SB1375	TRANSISTOR		
⚠ Q27			2SD2012	TRANSISTOR		
⚠ Q27			2SD2061	TRANSISTOR		
⚠ Q28			2SB1370	TRANSISTOR		
⚠ Q28			2SB1375	TRANSISTOR		
Q29,30			2SC1845(F,E)	TRANSISTOR		
Q31,32			2SA992(F,E)	TRANSISTOR		

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9

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q33			2SC2458(Y,GR)	TRANSISTOR		
Q33			2SC3311A(Q,R)	TRANSISTOR		
Q34			2SA1048(Y,GR)	TRANSISTOR		
Q34			2SA1309A(Q,R)	TRANSISTOR		
Q35,36			2SC2003(L,K)	TRANSISTOR		
Q37,38			2SA1048(Y,GR)	TRANSISTOR		
Q37,38			2SA1309A(Q,R)	TRANSISTOR		
PRE OUT UNIT : X13-7380-10 (KR-896 ONLY)						
C1			CK45FF1H103Z	CERAMIC 0.010UF Z		
J1			E63-0135-15	PHONO JACK		
D1,2			HSS104A	DIODE		
D1,2			1SS131	DIODE		
DISPLAY UNIT : X14-3850-XX						
D1			B30-2461-05	LED(RED,5)		
C1			CK45FF1H223Z	CERAMIC 0.022UF Z		
C2			CF92FV1H104J	MF-C 0.10UF J		
C3			CE04LW1C101M	ELECTRO 100UF 16WV		
C4,5			C91-0769-05	CERAMIC 0.010UF K		
C7			CK45FF1H103Z	CERAMIC 0.010UF Z		
C8,9			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C10			CE04LW1C101M	ELECTRO 100UF 16WV		
C11			C90-3566-05	ELECTRO 0.047UF 5.5WV		
C12-15			CF92FV1H104J	MF-C 0.10UF J		
C16			CE04LW1C101M	ELECTRO 100UF 16WV		
C17			CK45FF1H103Z	CERAMIC 0.010UF Z		
C18			CE04LW1E102M	ELECTRO 1000UF 25WV		
C19			CE04LW1H100M	ELECTRO 10UF 50WV		
C20-23			CK45FF1H103Z	CERAMIC 0.010UF Z		
⚠ C24,25			C91-1488-05	MF 6800PF 250VAC		
C26			CK45FF1H103Z	CERAMIC 0.010UF Z		
C27-30			C91-0769-05	CERAMIC 0.010UF K		
C31-33			CK45FF1H103Z	CERAMIC 0.010UF Z	Y	
C32,33			CK45FF1H103Z	CERAMIC 0.010UF Z	KPX	
C201,202			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		
C203,204			CE04LW1C101M	ELECTRO 100UF 16WV		
C205,206			CC45FSL1H221J	CERAMIC 220PF J		
C209,210			CC45FSL1H560J	CERAMIC 56PF J		
C211,212			CF92FV1H393J	MF-C 0.039UF J		
C213,214			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		
C215,216			CF92FV1H513J	MF-C 0.051UF J		
C217,218			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		
CN1,2			E40-4588-05	PIN ASSY		
CN3			E40-4612-05	PIN ASSY		
CN4			E40-4187-05	FLAT CABLE CONNECTOR		
CN5			E40-4245-05	PIN ASSY		
⚠ J1			E03-0148-05	AC OUTLET	KPY	
⚠ F11,12			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	Y	
⚠ F13			F04-5022-05	FUSE (UL) (125V 5A UL)	KP	
⚠ F14			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	X	
CN6-9			J13-0075-05	FUSE CLIP	Y	
CN10,11			J13-0075-05	FUSE CLIP	KP	

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10

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
CN12,13			J13-0075-05	FUSE CLIP	X	
L1-3			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	KPX	
L1-4			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	Y	
⚠ T1			L07-0864-05	POWER TRANSFORMER	KP	
⚠ T1			L07-0865-05	POWER TRANSFORMER	Y	
⚠ T1			L07-0866-05	POWER TRANSFORMER	X	
X1			L78-0294-05	RESONATOR (10.000M)		
⚠ R96			R92-1769-05	CARBON 3.3M J 1/2W	KP	
R221,222			RD14NB2E100J	RD 10 J 1/4W		
VR1,2			R10-5078-05	POTENTIOMETER(100K,5B)		
⚠ K1			S76-0009-05	MAGNETIC RELAY		
S1-32			S40-1064-05	PUSH SWITCH		
⚠ S50			S31-2322-05	SLIDE SWITCH	Y	
⚠ S51			S62-0001-05	SLIDE SWITCH	Y	
S33			T99-0547-05	SPEED DETECTOR		
S34			T99-0548-05	SPEED DETECTOR		
D2-20			HSS104A	DIODE	KPX	
D2-20			1SS131	DIODE	KPX	
D2-21			HSS104A	DIODE	Y	
D2-21			1SS131	DIODE	Y	
D22-35			HSS104A	DIODE	X	
D22-35			1SS131	DIODE	X	
D23-35			HSS104A	DIODE	Y	
D23-35			1SS131	DIODE	Y	
D24-35			HSS104A	DIODE	KP	
D24-35			1SS131	DIODE	KP	
D36-39			S5688B(TPB5)	DIODE		
D40-43			HSS104A	DIODE		
D40-43			1SS131	DIODE		
ED1			CM1270C	INDICATOR TUBE		
ED2			FIP11SM8R	INDICATOR TUBE		
IC1			CXP82320-162Q	MI-COM IC		
IC2			S-80740AL	ANALOGUE IC		
IC3			AN780575F	IC(VOLTAGE REGULATOR/+5.75V)		
IC10			NJM4565D-D	IC(OP AMP X2)		
IC10			XRA15218-DX	IC(OP AMP X2)		
Q1			2SC2458(Y,GR)	TRANSISTOR		
Q1			2SC3311A(Q,R)	TRANSISTOR		
Q2			2SA1048(Y,GR)	TRANSISTOR	Y	
Q2			2SA1309A(Q,R)	TRANSISTOR	Y	
Q3			2SC2458(Y,GR)	TRANSISTOR		
Q3			2SC3311A(Q,R)	TRANSISTOR		
Q4			2SC2003(L,K)	TRANSISTOR		
Q11,12			2SC1845(F,E)	TRANSISTOR		
A1			W02-1046-05	ELECTRIC CIRCUIT MODULE		
A1			W02-1174-05	ELECTRIC CIRCUIT MODULE		

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KR-596/796/896

SPECIFICATIONS

U.S.A. and Canada

AUDIO section

Rated power output at the STEREO operation
(KR-896/KR-796/KR-596)

100 watts per channel minimum RMS, both channels driven, at 8Ω from 40 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion. (FTC)

Power output at the Surround operation
(KR-896/KR-796 only)
- Front (1 kHz, 0.9% T.H.D at 8 Ω) ..... 70 W + 70 W
- Center (1 kHz, 0.9% T.H.D. at 8 Ω) 30W
- Rear (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 15 W + 15 W

Total harmonic distortion (1 kHz, 8 Ω) ..... 0.05% at 50W
Signal to noise ratio (IHF'66)
- PHONO (MM) ..... 70 dB
- CD, TAPE, VIDEO ..... 95 dB

Input sensitivity/impedance
- PHONO (MM) ..... 3.5 mV/47 kΩ
- CD, TAPE, VIDEO ..... 200 mV/47 kΩ

Tone controls
- BASS ..... ± 10 dB (at 100 Hz)
- TREBLE ..... ± 10 dB (at 10 kHz)

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (IHF) ..... 13.2 dBf (1.2 μV at 75 Ω)
50 dB quieting sensitivity
- STEREO ..... 41.2 dBf (3.2 μV at 75 Ω)

Total harmonic distortion at 1 kHz
- MONO 0.6%
- STEREO 0.7%

Signal to noise ratio at 65 dBf (IHF)
- MONO ..... 75 dB
- STEREO ..... 68 dB

Selectivity (IHF ± 400 kHz) ..... 50 dB
Stereo separation (IHF at 1 kHz) ..... 40 dB
Frequency response ..... 30 Hz ~ 15 kHz, +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range ..... 530 kHz ~ 1,700 kHz
Usable sensitivity ..... 12 μV/(500 μV/m)
Total harmonic distortion 0.7%
Signal to noise ratio ..... 48 dB
Selectivity ..... 30 dB

General

Power consumption
..... 2.5 A (KR-896/KR-796) 2.3 A (KR-596)
AC outlet
- SWITCHED ..... 2: (Total 200 W 1.6 A max.)

Dimensions ..... W: 440 mm (17-5/16")
H: 192 mm (7-9/16")
D: 300 mm (11-13/16")

Weight (Net) ..... 10.5 kg (23.1 lb)

Other countries (KR-896)

AUDIO section

Rated power output at the STEREO operation
- (EIAJ) from 40 Hz to 20 kHz, 0,09%, T.H.D. at 8 Ω ..... 100 W + 100 W
- (EIAJ) 1 kHz, 10% T.H.D. at 8 Ω ..... 130 W + 130 W

Power output at the Surround operation
- Front (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 70 W + 70 W
- Center (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 30 W
- Rear (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 15 W + 15 W

Total harmonic distortion (1 kHz, 8 Ω) ..... 0.05% at 50W
Signal to noise ratio (IHF'66)
- PHONO (MM) ..... 70 dB
- CD, TAPE, VIDEO ..... 95 dB

Input sensitivity/impedance
- PHONO (MM) ..... 3.5 mV/47 kΩ
- CD, TAPE, VIDEO ..... 200 mV/47 kΩ

Tone controls
- BASS ..... ± 10 dB (at 100 Hz)
- TREBLE ..... ± 10 dB (at 10 kHz)

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (IHF) ..... 13.2 dBf (1.2 μV at 75 Ω)
50 dB quieting sensitivity
- STEREO ..... 41.2 dBf (3.2 μV at 75 Ω)

Total harmonic distortion at 1 kHz
- MONO 0.6%
- STEREO 0.7%

Signal to noise ratio at 65 dBf (IHF)
- MONO ..... 75 dB
- STEREO ..... 68 dB

Selectivity (IHF ± 400 kHz) ..... 50 dB
Stereo separation (IHF at 1 kHz) ..... 40 dB
Frequency response ..... 30 Hz ~ 15 kHz, +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
- 9 kHz ..... 531 kHz ~ 1,602 kHz
- 10 kHz ..... 530 kHz ~ 1,610 kHz

Usable sensitivity ..... 12 μV (500 μV/m)
Total harmonic distortion 0.7%
Signal to noise ratio ..... 48 dB
Selectivity ..... 30 dB

General

Power consumption
..... 230 W
AC outlet
- SWITCHED ..... 2: (Total 200 W max.)

Dimensions ..... W: 440 mm
H: 192 mm
D: 300 mm

Weight (Net) ..... 10.5 kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note:
Component and circuity are subject to modification to insure best operation under differing local conditions. This manual is based on the the U.S.A.(K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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